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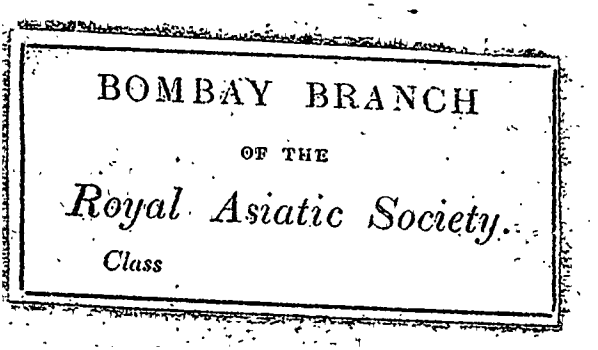

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PREFACE.

THE object of the present Catalogue is to give a complete list of all the genera and species of Deltoides known to exist in the different collections. The letters *a*, *b*, *c*, &c., after the species, denote the specimens now contained in the British Museum, followed by the *habitat* and the mode in which each of them was obtained, and the absence of these *letters* indicates the species which are desiderata, and therefore desirable to be procured for the collection.

Part XVII. comprising the Pyralides is in course of preparation and will shortly appear.

JOHN EDWARD GRAY.

British Museum,
December 20th, 1858.

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CATALOGUE

OF

LEPIDOPTERA HETEROCERA.

FOURTH SERIES.

Tribe 8. DELTOIDITES.

Corpus sæpissime gracile, semper læve. Proboscis gracilis, mediocris, plerumque bene determinata. Palpi compressi, ascendentes, nunquam incumbentes, caput semper superantes, nonnunquam super thoracem reversi, nonnunquam porrecti; articulus 2us longus; 3us bene determinatus, 2o sæpe flexus. Antennæ longæ, graciles. Thorax brevis, rotundatus, vix convexus, antice nunquam elevatus, tegulis nunquam ascendentibus. Abdomen longum, non robustum, vix pilosum. Pedes longi, non villosi; tibiæ anticæ femoribus valde breviores, sæpe tumidæ et fasciculatæ; intermediæ bicalcaratæ; posticæ quadricalcaratæ; calcaria longa, valida. Alæ amplæ, tenues, raro dentatæ, nunquam dum quietem agunt elevatæ aut deflexæ. *Mas.*—Antennæ pubescentes, setulosæ, aut pectinatæ.

Deltoïdes, *Latr.; Guen. Delt. et Pyral.* 1.

Body generally slender, always smooth. Proboscis slender, most often distinct and of moderate length, occasionally very short. Palpi compressed, ascending, never incumbent, always extending beyond the head, sometimes reverted and applied to the thorax; second joint long; third distinct, often forming a flexure with the second. Antennæ long, slender, pubescent, setulose or pectinated in the male. Thorax short, rounded, hardly convex, with the hairs

or tegulæ never elevated. Abdomen long, not robust, hardly pilose. Legs long, not pilose; fore tibiæ much shorter than the femora, often inflated and tufted; middle tibiæ with two spurs; hind tibiæ with four spurs, which are generally long and stout. Wings ample, delicate, rarely denticulated, never elevated or wrapped round the body in repose; the fore pair never entirely hiding the hind pair. Fore wings most often with an areolet above the discal one, of which it is independent, always curved, and having about it the superior veins, which are unequally located; four inferior veins; submedian vein simple. Hind wings with the costal and subcostal veins united near their origin; the first simple; the second forked.

Guenée's arrangement, which separates this tribe from the *Noctuites*, will probably be much modified by future observations, for in the latter group several of the families are more distinct from each other than some of them are from many species which that author includes in the *Deltoidites*.

A. Alæ angulatæ. - - - Fam. 1. PLATYDIDÆ, *Guen.*
B. Alæ non angulatæ.
A. Frons prominens, acutus. Fam. 2. HYPENIDÆ, *Herr.-Schæff.*
B. Frons non prominens. - Fam. 3. HERMINIDÆ, *Duponch.*

Fam. 1. PLATYDIDÆ.

Palpi longi, valde ascendentes, caput superantes; articulus 3us semper distinctus, 2o brevior, sæpe spatulatus. Antennæ ciliatæ aut pubescentes, non nodosæ. Pedes longi, graciles; tibiæ anticæ plus minusve incrassatæ. Alæ amplæ, extensæ, concolores, lituris non diversis, margine exteriore semper angulato; anticæ areola rhomboidali bene determinata.

Platydidæ, *Guen. Delt. et Pyral.* 11.

Palpi long, much ascending, extending above the head; third joint always distinct, shorter than the second, often spatulate: Antennæ ciliated or pubescent, not nodose. Legs long, slender; fore tibiæ more or less thickened. Wings ample, extended, alike in colour and with like markings; exterior border always angular or bent. Fore wings with the areolet rhomboidal, well developed. Hind wings with the independent vein distinct.

A. Pedes longissimi.
  A. Palpi ascendentes. - - - 2. MACRODES, *Guen.*
  B. Palpi porrecti. - - - - 3. AMETRIS, *Hübn.*
B. Pedes non longissimi.
  A. Tibiæ posticæ apice fasciculatæ.
    A. Palporum articulus 3us longus. - 1. TRIGONIA, *Guen.*
    B. Palporum articulus 3us minimus. - 5. MIDILA, *Walk.*
  B. Tibiæ posticæ fasciculatæ.
    A. Antennæ maris pectinatæ. - - 4. NEVIASCA, *Walk.*
    B. Antennæ maris non pectinatæ. - 6. MASCA, *Walk.*
  C. Tibiæ posticæ non fasciculatæ. - 7. PLATYDIA, *Guen.*

Genus 1. TRIGONIA.

Corpus vix validum. Proboscis brevissima. Palpi longiusculi, erecti, compressi, pilosi, caput superantes; articulus 3us lanceolatus, 2i dimidio valde longior. Antennæ graciles, pubescentes, setulosæ, corporis dimidio valde longiores. Abdomen lanceolatum, apice compressum et acuminatum, alas posticas valde superans. Pedes longiusculi, femoribus tibiisque anticis dense pilosis, tibiis mediis longis tumidis, tibiis posticis apice fasciculatis. Alæ anticæ longiusculæ, sat angustæ; posticæ latæ, subtruncatæ.

Brotis, p., *Hübn. Verz. Schm.* 303.
Trigonia, *Guen. Delt. et Pyral.* 11.
Claterna, *Cat. Lep. Het. 3rd Ser.* 1543.

Body moderately stout. Proboscis very short. Palpi rather long, vertical, compressed, pilose, ascending above the head; third joint lanceolate, much more than half the length of the second. Antennæ slender, pubescent, setulose, especially in the male, much more than half the length of the body. Abdomen lanceolate, compressed and acuminated at the tip, extending much beyond the hind wings. Legs rather long; fore femora and fore tibiæ densely pilose; middle tibiæ long, tumid; hind tibiæ tufted at the tips, with moderately long spurs. Fore wings rather long and narrow, rectangular at the tips; exterior border slightly angular at one-third of its length from the tip, very oblique and very slightly excavated hindward. Hind wings broad, somewhat truncated on each side of the rounded angle.

1. TRIGONIA CYDONIALIS.

Pallidissime cervina, subtus cinerascens; thorax antice fuscus; abdominis segmenta albo marginata; tarsi albi; alæ linea transversa media undulata duplicata albida, guttis marginalibus fuscis, lituris subtus interioribus nigris; anticæ macula trigona costali punctisque duobus contiguis albis; posticæ apud angulum interiorem albo lineatæ.

Phalæna Cydonia, *Cram. Pap. Exot.* i. 34, pl. 22, f. F.
Brotis Cydoniaria, *Hübn. Verz. Schm.* 303, 2926.
Herminia Sidonia, *Guér. Icon. Regn. Anim. Ins.* pl. 90, f. 5.
Trigonia Cydonialis, *Guen. Delt. et Pyral.* 12, 1.
Claterna exagens, *Cat. Lep. Het.* 3*rd. Ser.* 1543.

a, *b*. Java. From Mrs. Henry's collection.

Genus 2. MACRODES.

Corpus gracile. Oculi magni. Ocelli distincti. Proboscis longiuscula. Palpi valde ascendentes; articulus 2us compressus, squamosus, hirsutus, ensiformis; 3us gracilis, plus minusve elongatus. Antennæ longæ, basi approximatæ. Thorax et pectus pilosa. Abdomen conicum, alas posticas non superans. Pedes longissimi, gracillimi; tibiæ anticæ subincrassatæ. Alæ amplæ, concolores, lituris non diversis; anticæ subfalcatæ, apud costam subconvexæ, margine exteriore nonnunquam subflexo. *Mas.*—Antennæ lamini setigeris. *Fœm.*—Antennæ moniliformes, setis abbreviatis.

Euclystis, p., *Hübn. Verz. Schm.* 341.
Macrodes, *Guen. Delt. et Pyral.* 12.

Body slender. Eyes large. Ocelli distinct. Proboscis rather long. Palpi very ascending; second joint compressed, squamous, hirsute, ensiform; third slender, more or less long. Antennæ long, approximate at the base, with setigerous laminæ in the male, moniliform in the female. Thorax and pectus pilose. Abdomen conical, not extending beyond the hind wings. Legs very long and slender; fore tibiæ slightly thickened. Wings ample, alike in colour and with like markings. Fore wings subfalcate, slightly convex along the costa; exterior border occasionally with a flexure. *Male.*—Antennæ with setigerous laminæ. *Female.*—Antennæ moniliform, with short setæ.

1. Macrodes Cynaralis.

Cinerea, glauco suffusa, subtus alba; alæ lineis interiore et exteriore denticulatis albis, lunulis marginalibus nigricantibus albo marginatis; anticæ fascia diffusa albida, linea submarginali informi cervina, spatio apicali subtus cervino nigro marginato; posticæ margine exteriore albido, macula apicali cervina.

Phalæna-Geometra Cynara, *Cram. Pap. Exot.* i. 23, pl. 15, f. C, D.
Geometra Cynata, *Fabr. Syst. Gloss.* 128.
Euclystis Cynaralis, *Hübn. Exot. Schm.* ii. *Lep.* vi. *Pyral.* i. *Geometrif.* i. *Saliæ* B. *Egregiæ.* 4, f. 3, 4; *Verz. Schm.* 341, 3278.
Macrodes Cynaralis, *Guen. Delt. et Pyral.* 13, 2.

Surinam. Cayenne. Parà.

a. ——— ?

2. Macrodes Columbalis.

Albida; alæ lineis undulatis denticulatis cinereis, apice plus minusve cinereo; anticæ lituris duabus discalibus albis nigro marginatis, exteriore nigro notata. Mas.—*Palporum articulus 3us tenuis, brevior.* Fœm.—*Palporum articulus 3us validus, longior.*

Euclystis Cynaralis, *mas*, *Hübn. Exot. Schm.* ii. *Lep.* vi. *Pyral.* i. *Geometrif.* i. *Saliæ B. Egregiæ*, 4, f. 1, 2.
Macrodes Columbalis, *Guen. Delt. et Pyral.* 14, 3.

Cayenne.

a, *b*. Venezuela. From Mr. Dyson's collection.
c. Brazil. From Mr. Stevens' collection.

3. Macrodes Gygesalis.

Fuscescens; antennæ longissimæ; alæ lunulis marginalibus obscure fuscis; anticæ lituris duabus discalibus vitreis, interiore pyriformi, exteriore attenuata fusco interlineata; posticæ plaga discali angulata vitrea.

Phalæna Gyges, *Cram. Pap. Exot.* ii. 9, pl. 102, f. B.
Macrodes Gygesalis, *Guen. Delt. et Pyral.* 14, 4.

Surinam.

a. Venezuela. From Mr. Dyson's collection.

Genus 3. AMETRIS.

Mas. Corpus gracillimum. Fasciculus frontalis prominens. Proboscis longa. Palpi validi, porrecti, pubescentes; articulus 3us subfusiformis, 2i dimidio brevior. Antennæ longissimæ, subpectinatæ, apice simplices. Abdomen lineare, cylindricum, alas posticas superans. Pedes nudi, longissimi, gracillimi; tibiæ posticæ calcaribus sat longis. Alæ amplæ; anticæ subfalcatæ, posticis valde longiores, margine exteriore subangulato; posticæ margine exteriore subdenticulato, angulato.

Ametris, *Hübn. Verz. Schm.* 303. *Guen. Phal.* i. 387.
Macrotes, *Jardine, Ent. Libr.*

Male. Body very slender. Frontal tuft prominent. Proboscis long. Palpi stout, porrect, horizontal, pubescent; third joint subfusiform, rather less than half the length of the second. Antennæ very long, slightly pectinated to about three-fourths of the length. Abdomen linear, cylindrical, extending somewhat beyond the hind wings. Legs bare, extremely long and slender; hind tibiæ with moderately long spurs. Wings ample. Fore wings subfalcate, very much longer than the hind wings; exterior border forming a very obtuse angle. Hind wings with the exterior border slightly denticulated, forming a much more distinct angle than that of the fore wings.

1. Ametris netricalis.

Mas. *Pallide flavescente-viridis; caput antica purpurascente-rufum; alæ linea marginali obscure rufa, fimbria alba; anticæ rufescente apud costam conspersæ, puncto discali nigro; posticæ macula magna discali angulata vitrea nigro rufoque marginata.*

Phalæna netrix, *Cram. Pap. Exot.* ii. 87, pl. 151, f. E.
Ametris netricaria, *Hübn. Verz. Schm.* 303, 2921. *Guen. Phal.* i. 388, 622, pl. 15, f. 1.
Phalæna netrata, *Fabr. Syst. Gloss.* 136.
Macrotes netricaria, *Jardine, Nat. Libr.*

West Indies. Brazil.

a. Venezuela. From Mr. Dyson's collection.

2. Ametris Cordovalis.

A. netricali *affinis, major; alæ linea marginali simplici; posticæ dentibus duobus tantum posticis.*

Ametris Cordovalis, *Guen. Phal.* i. 388, 623.

Cordova, Vera Cruz.

Genus 4. NEVIASCA.

Mas et fœm. Corpus sat robustum. Proboscis brevis. Palpi oblique ascendentes, sat breves; articulus 3us subconicus, 2i triente non longior. Antennæ corporis dimidio paullo longiores. Abdomen conicum, alas posticas non superans. Pedes validi; tibiæ anteriores subfasciculatæ, posticæ dense fasciculatæ calcaribus longis. Alæ longiusculæ, vix latæ; anticæ apice rectangulatæ, margine exteriore subangulato; posticæ margine exteriore angulato. *Mas.* — Antennæ pectinatæ, apices versus simplices.

Male and female. Body moderately stout. Proboscis short. Palpi obliquely ascending, rather short; third joint nearly conical, about one-third of the length of the second. Antennæ a little more than half the length of the body. Abdomen conical, not extending beyond the hind wings. Legs stout; anterior tibiæ slightly tufted; hind tibiæ densely tufted; spurs long. Wings rather long, hardly broad. Fore wings rectangular at the tips; exterior border slightly angular. Hind wings with the exterior border angular. *Male.* — Antennæ moderately pectinated to beyond the middle.

1. NEVIASCA VARIALIS.

Mas et fœm. *Cervina, subtus albida; alæ lineis fuscescentibus, exteriore magis determinata extus albo marginata antice undulata postice angulata, linea submarginali alba recta, lunulis marginalibus albo marginatis; anticæ lituris costalibus albis, macula discali vitrea angulata, macula contigua costaque apud apicem ochraceis; posticæ gutta discali nigra.*

Male and female. Fawn-colour, mostly whitish beneath. Wings with the lines brownish; the exterior one more distinct than the others, bordered with white exteriorly, undulating in the fore wings, but forming a distinct angle in the hind wings; submarginal line white, straight, having between it and the exterior border another white line, which includes three marginal lunules; of these the fore one is very large; fringe whitish. Fore wings with white costal marks and with a discal vitreous angular spot corresponding to the reniform mark, while the orbicular is represented by a black point; a spot adjoining the vitreous mark and the apical part of the costa somewhat ochraceous. Hind wings with a black discal dot. Length of the body 6½—7 lines; of the wings 16—17 lines.

a, b. North Hindostan. From Mr. James' collection.
c. ——— ? From Mr. Milne's collection.

Genus 5. MIDILA.

Mas. Corpus sat validum. Proboscis brevis. Palpi breves, robusti, porrecti, pubescentes, caput paullo superantes; articulus 3us conicus, minimus. Antennæ validæ, serratæ, corporis dimidio breviores. Abdomen subcarinatum, sublineare, alas posticas vix superans. Pedes graciles; tibiæ anticæ et posticæ fasciculis apicalibus. Alæ elongatæ, margine exteriore angulato; anticæ falcatæ.

Male. Body moderately stout. Proboscis short. Palpi short, stout, porrect, pubescent, extending a little beyond the head; third joint conical, very minute. Antennæ stout, serrated, less than half the length of the body. Abdomen slightly keeled, nearly linear, hardly extending beyond the hind wings; apical tuft small. Legs slender; fore and hind tibiæ with apical tufts; spurs moderately long. Wings elongate, moderately broad; exterior border with an acute and very prominent angle. Fore wings falcate.

1. Midila attacalis.

Mas. *Cervina, subtus alba; pedes femoribus anticis apice tibiisque anticis nigris, his nigro fasciculatis; alæ linea exteriore recta obliqua fusca, macula discali vitrea angulata; anticæ lineis basali et interiore fuscis denticulatis; posticæ fimbria apud marginem interiorem alba longiuscula.*

Male. Fawn-colour, mostly white beneath. Fore tibiæ and tips of fore femora black; the former with black tufts. Wings with a straight oblique exterior brown line, which extends from near the tip of the costa of the fore wings to near the end of the interior border of the hind wings; a discal vitreous angular spot, which is very large in the fore wings, of moderate size in the hind wings. Fore wings with the basal and interior lines brown, denticulated. Interior border of the hind wings with a fringe of rather long white hairs. Length of the body 9 lines; of the wings 24 lines.

a. ——— ?

Genus 6. MASCA.

Mas. Corpus sat gracile. Proboscis brevis. Palpi compressi, erecti, caput paullo superantes; articulus 3us linearis, 2i dimidio longior. Antennæ graciles, corporis dimidio longiores, vix setosæ.

Thoracis tegulæ anticæ subelevatæ. Abdomen lanceolatum, alas posticas non superans. Pedes sat validi; tibiæ posticæ fasciculis floccosis. Alæ longiusculæ, vix denticulatæ; anticæ margine exteriore flexo.

Male. Body rather slender. Proboscis short. Palpi compressed, vertical, rising rather higher than the head; third joint linear, conical at the tip, more than half the length of the second. Antennæ slender, more than half the length of the body, with very minute bristles, which are approximate towards the base — remote from each other towards the tips—of the antennæ. Front tegulæ of the thorax somewhat elevated. Abdomen lanceolate, not extending beyond the hind wings; apical tuft very small. Legs rather stout; hind tibiæ tufted with long curled hairs; spurs rather long. Wings rather long, not broad, hardly denticulated. Fore wings with a flexure on the exterior border, whose hind part is very oblique.

1. MASCA ABACTALIS.

Mas. *Pallide fusca, albido varia; alæ anticæ lineis nigricante-fuscis denticulatis indistinctis incompletis, maculis duabus discalibus æqualibus nigricante-fuscis, lituris duabus albis subapicalibus, lunulis marginalibus nigricante-fuscis; posticæ spatio lato costali exteriore nigricante-fusco.*

Male. Pale brown, mingled with whitish. Abdomen mostly whitish. Fore wings with the lines blackish brown, denticulated, indistinct, incomplete; two blackish brown spots of equal size in a line on the disk; two white subapical marks; marginal lunules blackish brown. Hind wings, a broad blackish brown space along the apical half of the costa. Length of the body 7 lines; of the wings 20 lines.

Singapore. In Mr. Wallace's collection.

Genus 7. PLATYDIA.

Corpus sat gracile. Proboscis breviuscula. Palpi longi, compressi, oblique ascendentes; articulus 2us subpilosus; 3us linearis, apice conicus, 2i dimidio paullo longior. Antennæ setulosæ, corpore paullo breviores. Abdomen alas posticas non superans. Pedes sat validi, subnudi; tibiæ posticæ calcaribus longiusculis. Alæ vix denticulatæ, litura disculi vitrea, margine exteriore flexo; anticæ subfalcatæ.

Platydia, *Guen. Delt. et Pyral.* 15.

Body rather slender. Proboscis rather short. Palpi long, compressed, obliquely ascending; second joint slightly pilose; third linear, conical at the tip, a little more than half the length of the second. Antennæ setulose, about three-fourths of the length of the body. Abdomen not extending beyond the hind wings. Legs rather stout, almost bare; hind tibiæ with rather long spurs. Wings moderate, with a slight vitreous mark in the disk; exterior border somewhat bent in the middle, hardly denticulated. Fore wings slightly subfalcate.

1. PLATYDIA FLAVAGALIS.

Mas.—*Fulvescente flava; alæ purpurascente-fusco conspersæ et marginatæ; anticæ costa non conspersa, linea exteriore puncta dua vitrea includente; posticæ margine incarnato, guttis apud angulum interiorem tribus nigris, fascia basali angusta, maculis tribus discalibus vitreis.* Fœm.—*Major, obscurior; alæ anticæ maculam unam vitream includente.*

Platydia flavagalis, *Guen. Delt. et Pyral.* 15, 5.

Brazil. Colombia.

2. PLATYDIA AURAGALIS.

Fœm. P. flavagali *simillima, major, carneo-fusca; alæ anticæ costa flava, lineæ interioris angulis acutioribus; posticæ maculis vitreis distinctioribus.*

Platydia auragalis, *Guen. Delt. et Pyral.* 16, 6.

Cayenne.

3. PLATYDIA MOLLEALIS.

Mas. *Lignicolor, subtus cinerea luteo varia; palpi nigro notati; alæ lunula discali vitrea, fascia exteriore fusca lineam includente duplicatam pallidam subundulatam nigro marginatam; anticæ annulo interiore discali vitreo, plaga exteriore discali albida, linea basali nigra transversa interrupta, fasciis duabus intermediis fuscis; posticæ fascia exteriore valde diffusa.*

Male. Wood-colour. Wings beneath cinereous and varied with luteous. Palpi with black marks. Thorax with pale speckles. Wings with a discal vitreous lunule and with an exterior irregular brown band which contains a double pale slightly undulating

mostly black-bordered line; marginal points black. Fore wings with a vitreous interior discal ringlet, and with an exterior whitish discal patch which includes the vitreous lunule; a black interrupted transverse line near the base, having two slender irregular brown bands between it and the exterior line. Hind wings with a very diffuse exterior band. Length of the body 6 lines; of the wings 15 lines.

a. Rio Janeiro. From Mr. Stevens' collection.

4. PLATYDIA ABDITALIS.

Mas et fœm. *Pallide cinerea, vix testaceo suffusa; alæ anticæ fusco subconspersæ, lineis subobscurioribus, punctis marginalibus nigris, margine exteriore angulato; anticæ lineis interiore et exteriore undulatis, submarginali interrupta indistincta, punctis costalibus subapicalibus albidis, reniformi* (fœm.) *nigra.*

Male and female. Pale cinereous, with a slight testaceous tinge, darker beneath. Third joint of the palpi much more slender than the second, with which it forms an angle. Wings minutely speckled with brown; marginal points black; exterior border forming a distinct angle; lines a little darker than the ground-colour. Fore wings with the interior and exterior line undulating, the latter continued on the hind wings, as is also the submarginal line, which is interrupted and indistinct; costal subapical points whitish; reniform mark forming a black spot in the female. Length of the body 4 lines; of the wings 12 lines.

a, b. Rio Janeiro. From Mr. Lamb's collection.

Fam. 2 HYPENIDÆ.

Frons fasciculo porrecto acuto. Palpi compressi, non dissimiles, sæpissime longi pilosi et porrecti; articulus 3us 2o brevior, thoraci nunquam applicatus. Antennæ rectæ, ciliatæ aut squamoso pubescentes, non tumidæ nec nodosæ, nec fasciculis pilosis aut nodosis instructæ. Pedes longi; antici non fasciculati. Alæ latæ, tenues; anticæ sepæ squamoso fasciculatæ, areola sæpissime distincta; posticæ amplæ, bene determinatæ.

Hypenidæ, *Herr.-Schæff.; Guen. Delt. et Pyral.* 17.

Front with a prominent and acute projection. Palpi compressed, alike in both sexes, generally long, pilose and porrect,

third joint shorter than the second, never reverted on the thorax Antennæ straight, furnished with ciliæ or with pubescent scales, not tumid nor nodose, nor with pilose or squamose tufts. Legs long, without pilose or squamose tufts on the fore pair. Wings broad, delicate. Fore wings often with tufts of prominent scales; areolet distinct, very rarely wanting. Hind wings ample, well developed, plicate, generally without markings on both sides; independent vein always isolated.

A. Corpus non metallicolor.
A. Alæ anticæ non angulatæ.
a. Palporum articulus 3us fasciculo nullo apicali.
a. Alæ posticæ maris non excisæ.
i. Alæ posticæ flavæ. - - 1. DICHROMIA, *Guen.*
ii. Alæ posticæ non flavæ.
* Antennæ maris non pectinatæ nec serratæ.
† Palpi longissimi. - 3. RHYNCHINA, *Guen.*
†† Palpi non longissimi.
‡ Palpi rostriformes. - 2. RHODINA, *Guen.*
‡‡ Palpi non rostriformes.
§ Antennæ non moniliformes.
× Palporum articulus 3us non spatulatus.
→ Alæ anticæ non pomaceæ.
++ Palpi non aut vix arcuati.
8. HYPENA, *Schr.*
++++ Palpi valde arcuati.
9. HYPENODES, *Guen.*
→→ Alæ anticæ pomaceæ.
18. MACNA, *Walk.*
×× Palporum articulus 3us subspatulatus. - 7. SARMATIA, *Guen.*
§§ Antennæ moniliformes.
10. SCHRANCKIA, *Guen.*
** Antennæ maris serratæ. - 15. GESONIA, *Walk.*
*** Antennæ maris pectinatæ.
† Palporum articulus 3us dilatatus.
6. CERAPTILA, *Guen.*
†† Palporum articulus 3us non dilatatus.
‡ Palpi porrecti. - 13. HERMŒA, *Walk.*
‡‡ Palpi ascendentes. - 14. HORMISA, *Walk.*
b. Alæ posticæ maris excisæ. - 5. PTERHEMIA, *Guen.*

B. Palporum articulus 3us fasciculo apicali.
17. LAMETIA, *Walk.*

B. Alæ anticæ subangulatæ.
A. Pedes sat validi. - - - - 11. GISIRA, *Walk.*
B. Pedes graciles. - - 4. CALOBOCHYLA, *Hübn.*
C. Alæ anticæ angulatæ. - - - 12. HYAMIA, *Walk.*
B. Corpus metallicolor. - - - - 16. ABÆRA, *Walk.*

Genus 1 DICHROMIA.

Corpus gracile. Proboscis brevis. Palpi porrecti, compressi, squamosi, latiusculi, angulati; caput longe superantes; articulus 3us 2i dimidio non longior, spina apicali armatus. Thorax brevis, convexus, squamosus. Abdomen cylindrico-conicum, alas posticas non superans. Pedes sat validi; tibiæ latæ, villosæ, squamosæ, læves; posticæ calcaribus longis. Alæ sat robustæ; anticæ apice nonnunquam subrotundatæ. *Mas.*—Antennæ ciliis æqualibus subfasciculatis. *Fœm.*—Antennæ ciliis brevissimis remotis.

Calymna, *p. Hubn. Verz. Schmett.* 281.
Dichromia, *Guen. Delt. et Pyral.*, 18.

Body slender. Proboscis short. Palpi porrect, compressed, squamous, rather broad, extending far beyond the head; third joint terminated by a small spine, about half the length of the second, with which it forms an obtuse angle. Antennæ with ciliæ equal and slightly fasciculated in the male, very short and isolated in the female. Thorax short, convex, squamous. Abdomen cylindric-conical, extending almost as far as the hind wings. Legs rather stout; tibiæ thick, villose, squamose, smooth; hind tibiæ with long spurs. Wings rather stout, moderately broad. Fore wings with the apical angle slightly rounded; exterior border entire, convex, slightly oblique.

Asia.

A. Alæ anticæ plaga maxima nigro-fusca.
A. Alæ anticæ cinereæ. - - - - Orosialis, *Guen.*
B. Alæ anticæ ferrugineo fuscæ. - - trigonalis, *Guen.*
B. Alæ anticæ plaga nulla nigro-fusca.
A. Alæ anticæ nigræ aut nigro-fuscæ.
A. Alæ anticæ basi non albidæ. - - triplicalis, *Walk.*
B. Alæ anticæ basi albidæ. - - - quadralis, *Walk.*
B. Alæ anticæ cinereæ, fascia latissima fusca. - sextalis, *Walk*

1. Dichromia Orosialis.

Cinerea, nigro conspersa; abdomen luteum; alæ anticæ subobtusæ, apud marginem exteriorem obscuriores, plaga maxima trigona nigro-fusca; posticæ luteæ, margine nigro-fusco angulum versus interiorem attenuato, linea marginali atra.

Phalæna (Noctua) Orosia, *Cram. Pap. Exot.*, iii., 149, pl. 275, f. D.
Calymma Orosia, *Hübn. Verz. Schmett.*, 281, 2760.
Dichromia Orosialis, *Guen. Delt. et Pyral.*, 18, 7.

a, *b*. Hindostan. From Mr. Milne's collection.
c—*e*. Hindostan. From the collection of the Entomological Society.
f. Ceylon. From Mr. Stevens' collection.
g. ———?

2. Dichromia trigonalis.

Ferrugineo-fusca; thorax albo conspersus; abdomen luteum; alæ anticæ sat acutæ, albo ex parte conspersæ, plaga maxima trigona nigro-fusca marginem interiorem attingente albo submarginata; posticæ luteæ, margine nigro-fusco angulum versus interiorem attenuato, linea marginali atra.

Dichromia trigonalis, *Guen. Delt. et Pyral.* 19, 8.

a. Nepaul. Presented by Major-Gen. Hardwicke.

3. Dichromia quadralis.

Mas. *Pallide cinerea; thorax nigro conspersus; abdomen pallide luteum; alæ anticæ nigricante-fuscæ, basi albidæ nigricante-fusco conspersæ, linea exteriore albida subundulata vix obliqua, linea contigua magis undulata antice flexa, linea tertia postica undulata brevissima; posticæ pallide luteæ, apice nigricante-fuscæ.*

Male. Pale cinereous. Thorax with black speckles. Abdomen and hind wings pale luteous. Fore wings blackish brown; basal part obliquely whitish with blackish brown speckles; an exterior transverse hardly oblique slightly undulating whitish line, contiguous to which there is a more undulating line; the latter is abruptly bent outward in front and extends to the tip of the wing, and has beyond it by the interior border a third very short undulating whitish line; submarginal festoon whitish; marginal points

black. Hind wings blackish brown about their tips; marginal line black. Length of the body 5 lines; of the wings 14 lines.

a. North Hindostan. From Mr. James' collection.

4. DICHROMIA QUINQUALIS.

Mas. *Obscure fusca; abdomen luteum, linea exteriore cervina duplicata undulata plagaque apud angulum interiorem strigaque lata arcuata apicali pallide cervinis connexis, lunulis marginalibus nigris; posticæ luteæ, margine lato nigricante.*

Male. Dark brown. Abdomen luteous. Fore wings with the exterior line fawn-colour, double, undulating, connected with a pale fawn-coloured patch by the interior angle, and with a broad curved irregular streak of the same hue by the tip; marginal lunules black. Hind wings luteous with a broad blackish border, the latter attenuated towards the interior angle, which it does not reach. Length of the body 5 lines; of the wings 12 lines.

a. Java. From the collection of the East India Company.

5. DICHROMIA SEXTALIS.

Mas. *Cinerea, fusco conspersa; palpi fusci; abdomen pallide luteum; alæ antice spatio medio fusco, lineis interiore et exteriore pallidis rectis obliquis postice approximatis, striga apicali pallide cinerea lata arcuata, spatio versus marginem exteriorem ex parte fusco; linea submarginali subobsoleta; posticæ pallide luteæ, apice fascescentes.*

Male. Cinereous, speckled with brown. Palpi brown, pilose; third joint forming a slight angle with the second, of which it is about half the length. Abdomen pale luteous. Fore wings with a brown middle space enclosed between the interior and exterior lines, which are pale, straight and oblique, and converge hindward; apical streak pale cinereous, broad, curved; space towards the exterior border partly clouded with brown; submarginal line almost obsolete; marginal line dark brown like that of the hind wings, which are pale luteous with brownish tips. Length of the body 5 lines; of the wings 13 lines.

a—c. North China. From Mr. Fortune's collection.

Australia.

6. Dichromia duplicalis.

Mas et fœm. *Cinereo-nigra; abdomen luteum, pilis nonnullis apicalibus cristisque nigris; alæ anticæ pallide cinereæ, carneo subtinctæ, plaga maxima trigona fasciaque exteriore obliqua undulata nigricantibus, hac glauco interlineata et conspersa, spatio marginali ex parte nigricante-fusco, litura apicali pallida obliqua, orbiculari et reniformi e guttis duabus atris, hac pallido notata, lunulis marginalibus atris; posticæ luteæ, nigro marginatæ.*

Male and female. Cinereous-black. Abdomen luteous, with some small black crests, diminishing from the base to the middle, and with some black apical hairs. Fore wings pale cinereous, with a slight pale flesh-coloured tinge; a very large triangular blackish patch, beyond which there is a blackish oblique undulating band, the latter interlined and speckled with glaucous; space between this band and the exterior border partly blackish brown; a pale oblique apical mark; orbicular and reniform marks distinguished by two deep black dots, the latter with a pale centre; marginal lunules deep black. Hind wings luteous, with a black border, attenuated hindward along two-thirds of the length of the exterior margin, where it ceases; a deep black marginal line; fringe luteous towards the interior angle. Length of the body 6 lines; of the wings 16 lines.

a, *b*. Moreton Bay. From Mr. Diggles' collection.

Country unknown.

7. Dichromia triplicalis.

Fœm. *Nigra, albido ex parte conspersa; abdomen luteum, nigro cristatum; alæ anticæ linea subobliqua fere recta lunulisque submarginalibus ex parte connexis albis, fimbria cinerea albo interlineata; posticæ luteæ, apice nigricantes, linea marginali atra.*

Female. Black, with whitish speckles. Abdomen luteous with slight black crests along the basal half. Fore wings having some parts without whitish speckles, with a white nearly straight slightly oblique line a little beyond the middle, and with white sub-

marginal partly connected lunules; fringe cinereous, interlined with white. Hind wings luteous, blackish about their tips, with a deep black marginal line. This species has much resemblance to *D. trigonalis*, but may be distinguished by the more straight white line on the fore wings, and by the difference in the dark part of the hind wings. Length of the body 6 lines; of the wings 16 lines.

a. ———? Presented by E. Doubleday, Esq.

Genus 2. RHODINA.

Corpus gracile. Palpi longi, recti, porrecti, squamosi, rostriformes, articulis arcte connexis. Antennæ pubescentes, corporis dimidio longiores. Thorax brevis, squamosus. Abdomen longum, læve, attenuatum, planum, alas posticas superans. Pedes graciles. Alæ anticæ acutæ, falcatæ, margine exteriore subflexo. *Mas.*—Abdomen apice fasciculatum. *Fœm.*—Abdomen acutum.

Rhodina, *Guen. Delt. et Pyral.* 19.

Body slender. Palpi long, straight or slightly incumbent, porrect, squamous, rostriform, with the joints confused together. Antennæ pubescent, more than half the length of the body. Thorax short, squamous. Abdomen long, smooth, attenuated, extending beyond the hind wings; tip tufted in the male, acute in the female. Legs slender; tarsi without spines. Wings moderately broad, rather long. Fore wings acute, falcate; exterior border slightly bent.

1. Rhodina falculalis.

Rosea; abdomen albidum; alæ anticæ linea exteriore pallida undulata, lituris discalibus punctisque submarginalibus et marginalibus nigris; posticæ cinerascentes, lineis duabus albidis, punctis submarginalibus nigris.

Rhodina falculalis, *Guen. Delt. et Pyral.* 20, 9.

Australia.

Genus 3. RHYNCHINA.

Corpus gracile. Palpi longissimi, subincumbentes, villoso-squamosi; articulus 2us latus, thorace longior, apice fissus; 3us multo angustior, subovatus. Pedes breviusculi, graciles; tibiæ

calcaribus non bene determinatis; tarsi spinosi. Alæ tenues, oblongæ; anticæ angustæ, lanceolatæ, acutæ, falcatæ, areola magna rhomboidali.

Rhynchina, *Guen. Delt. et Pyral.* 20.

Body slender. Palpi very long, slightly incumbent, villose-squamous; second joint broad, longer than the thorax, cleft where it joins the third, which is nearly oval and much more slender. Legs slender, rather short; spurs feeble; tarsi short, thickly beset with spines. Wings delicate, oblong. Fore wings narrow, lanceolate, acute, falcate, with a large rhomboidal areolet.

1. RHYNCHINA PIONEALIS.

Testaceo-cinerea, pallidissime flavescens; alæ anticæ basi costaque fuscescente-cinereo conspurcatis, linea ochraceo-alba lineaque obliqua exteriore; posticæ albido-cinereæ.

Rhynchina pionealis, *Guen. Delt. et Pyral.* 21, 10.

Hindostan.

Genus 4. CALOBOCHYLA.

Corpus gracile. Fasciculus frontalis porrectus, valde acutus. Proboscis brevis. Palpi breves, pubescentes, vix ascendentes; articulus 3us longi-conicus, 2i triente non longior. Antennæ graciles, corporis dimidio paullo longiores. Abdomen alas posticas non superans. Pedes graciles, pubescentes; tibiæ posticæ calcaribus longis. Alæ mediocres; anticæ subfalcatæ, margine exteriore subflexo; posticæ lituris nullis. *Mas.*—Antennæ crenulato setosæ. *Fœm.*—Antennæ nudæ.

Crambus, p., *Haw.*
Hypena, p., *Treit.*
Calobochyla, *Hübn. Verz. Schm.* 344; *Steph. Ill. Brit. Haust.* iv. 18.
Madopa, *Steph. Cat. Brit. Ins.* 2, 159; *Duponch.; Herr.-Schæff.; Guen. Delt. et Pyral.* 21.

Body slender. Frontal tuft prominent and very acute. Proboscis short. Palpi short, pubescent, hardly ascending, extending a little beyond the frontal tuft; third joint elongate-conical, about one-third of the length of the second. Antennæ slender, little more than half the length of the body. Abdomen not extending beyond the hind wings. Legs slender, pubescent; hind tibiæ with long

spurs. Wings moderately broad. Fore wings subfalcate; exterior border very slightly bent in the middle. Hind wings without markings. *Male.*—Antennæ crenulate-setose. *Female.*—Antennæ bare.

1. CALOBOCHYLA SALICALIS.

Pallidissime schistacea; palpi extus cervini; abdomen albido-cinereum; alæ anticæ lineis tribus rectis obliquis cervinis pallido marginatis, punctis marginalibus nigris; posticæ albido-cinereæ, linea marginali interrupta fusca.

Pyralis salicalis, *Wien. Verz.* 285, pl. 1, f. a—f. *Fabr. Ent. Syst.* iii. 369. *Turt. Syst. Nat.* iii. 277.
Phalæna obliquata, *Fabr. Ent. Syst.* iii. 203. *Coqueb. Ill. Icon.* pl. 7, f. 7.
Crambus salicatus, *Haw. Lep. Brit.* 370.
Pyralis salicalis, *Hübn. Eur. Schm.* v. f. 3. *Treit. Schm.* 34. *Duponch. Lép. Fr.* 50, pl. 213, f. 4. *Herr.-Schæff. Schm. Eur.* 426.
Madopa salicalis, *Steph. Cat. Brit. Ins.* ii. 159, 6767. *Guen. Delt. et Pyral.* 22, 11.
Calobochyla salicalis, *Hübn. Verz. Schm.* 344. *Steph. Ill. Brit. Haust.* iv. 18.

a, *b*. England. From Mr. Stephens' collection.
c—*f*. England.

2. CALOBOCHYLA FIRMALIS.

Fœm. *Violaceo-cinerascens; caput, palpi, prothorax et pedes antici fusco-flava; alæ anticæ trigonæ, margine exteriore subflexo, lineis duabus flavescente-albis, 1a non obliqua, 2a valde flexa, fascia interiore nigro-fusca; posticæ nigricante-cinereæ, basi pallidiores.*

Madopa firmalis, *Guen. Delt. et Pyral.* 22, 12.

Cayenne.

Genus 5. PTERHEMIA.

Alæ posticæ maris apice truncatæ et incisæ.

Pterhemia, *Guen. Delt. et Pyral.* 23.
Pessida, *Cat. Lep. Het.* 3rd *Ser.* 1641.

Hind wings of the male truncated and excavated at the tips.

1. PTERHEMIA MUTILATALIS.

Pterhemia mutilatalis, *Guen. Delt. et Pyral.* 24, 13.
Pessida interlineata, *Cat. Lep. Het.* 3*rd Ser.* 1641.

Cayenne.

2. PTERHEMIA? UNCINALIS.

Fulvo-testacea; antennæ nigræ subpectinatæ; alæ subrufescentes, fascia lata obliqua testacea nigro marginata, in anticis ad costam dilatata, in posticis antice abbreviata.

Paracolax uncinalis (Pyralis geometriformis, Herpizon curvipalpis), *Geyer, Samml. Exot. Schmett.* 16, 325, f. 649, 650.

West Indies.

Genus 6. CERAPTILA.

Mas. Corpus sat validum. Proboscis brevis. Palpi robusti, porrecti, pilosi, thorace non breviores; articulus 3us lanceolatus, 2i dimidio æqualis. Antennæ pectinatæ, corporis dimidio non breviores. Abdomen lanceolatum, lævе, alas posticas non superans. Pedes sat validi. Alæ mediocres; anticæ vix subfalcatæ, margine exteriore subconvexo vix oblique.

Ceraptila, *Guen. Delt. et Pyral.* 24, 14.

Male. Body moderately stout. Proboscis short. Palpi stout, porrect, pilose, as long as the thorax; third joint lanceolate, about half the length of the second. Antennæ moderately pectinated, about half the length of the body. Abdomen lanceolate, smooth, not extending beyond the hind wings. Legs rather stout. Wings moderately broad. Fore wings hardly subfalcate; exterior border slightly convex, hardly oblique.

1. CERAPTILA RENIFERALIS.

Mas. *Ferruginea; alæ anticæ macula discali pallidiore, linea basali costali lineaque interiore interrupta nigris, hac postice dilatata, linea exteriore incompleta, linea submarginali pallida postice obsoleta, antice maculis contiguis nigris; posticæ fuscescente-cinereæ.*

Ceraptila reniferalis, *Guen. Delt. et Pyral.* 24, 14.

a. South Africa. Presented by Dr. A. Smith.

Genus 7. SARMATIA.

Mas. Corpus gracile. Proboscis brevis. Palpi graciles, compressi, oblique ascendentes, thorace breviores; articulus 2us subpilosus; 3us nudus, vix subspatulatus, 2o non brevior. Antennæ crenulatæ, subserratæ, corporis dimidio vix longiores. Abdomen cylindrico-conicum, alas posticas vix superans. Pedes sat graciles, subnudi; tibiæ posticæ calcaribus longis. Alæ mediocres; anticæ apice rectangulatæ, non subfalcatæ.

Sarmatia, *Guen. Delt. et Pyral.* 25.

Male. Body slender. Proboscis short. Palpi slender, compressed, obliquely ascending, shorter than the thorax; second joint slightly pilose; third bare, hardly subspatulate, as long as the second. Antennæ distinctly crenulated, slightly serrated, hardly more than half the length of the body. Abdomen cylindric-conical, hardly extending beyond the hind wings. Legs moderately slender, almost bare; hind tibiæ with long spurs. Wings moderately broad. Fore wings rectangular at the tips, not subfalcate; hind part of the exterior border oblique.

1. Sarmatia interitalis.

Cinereo-fusca; alæ anticæ spatio inter lineas interiorem et exteriorem nigras undulatas nigro-fusco, linea exteriore postice angulata, linea submarginali e guttis punctisque nigris, macula reniformi e litura nigra.

Sarmatia interitalis, *Guen. Delt. et Pyral.* 25, 15.

a, *b*. South Africa. Presented by Dr. A. Smith.

Genus 8. HYPENA.

Corpus gracile. Fasciculus frontalis porrectus, acutus. Proboscis brevis. Palpi porrecti, pilosi, thorace nonnunquam non breviores, sæpissime angulati; articulus 2us longissimus; 3us brevis, sæpissime lanceolatus. Antennæ graciles, corporis dimidio longiores. Thorax squamosus. Abdomen sæpe cristatum, alas posticas non superans. Pedes graciles, vix pilosi; tibiæ posticæ calcaribus longis. Alæ latæ; anticæ acutæ, sæpissime subfalcatæ. *Mas.* — Antennæ sæpe subserratæ et ciliatæ. *Fœm.* — Antennæ vix ciliatæ.

Hypena, *Schr. Faun. Boic.* 163; *Treit.*; *Duponch.*; *Steph.*; *Herr.-Schæff.*; *Guen. Delt. et Pyral.* 25.
Crambus, p., *Haw.*; *Fabr. Suppl.*
Hyblæa, p., *Fabr. Suppl.*
Bomolocha, p., Hypena, p., et Macrochile, p., *Hübn. Verz. Schm.* 343, 345.

Body slender. Head with an acute porrect frontal tuft. Proboscis short. Palpi porrect, pilose, often as long as the thorax; second joint very long; third generally lanceolate, forming in most species an angle with the second, and frequently not more than one-fourth of its length. Antennæ slender, more than half the length of the body, often subserrated and ciliated in the male, hardly ciliated in the female. Thorax squamous. Abdomen smooth, often crested, not extending beyond the hind wings. Legs slender, hardly pilose; hind tibiæ with long spurs. Wings broad. Fore wings acute, generally subfalcate; exterior border slightly convex and oblique.

Europe.

A. Alæ fimbria brevi.
A. Statura sat magna. - - - - proboscidalis, *Linn.*
B. Statura mediocris.
a. Alæ anticæ non plagiatæ.
a. Alæ anticæ falcatæ. - - - rostralis, *Linn.*
b. Alæ anticæ vix falcatæ.
i. Alæ anticæ albido variæ.
* Alæ anticæ apice albidæ. - - obsitalis, *Hübn.*
** Alæ anticæ apice non albidæ. - obesalis, *Treit.*
ii. Alæ anticæ albido non variæ. - extensalis, *Guen.*
b. Alæ anticæ plaga maxima. - - - crassalis, *Fabr.*
B. Statura parva. Abdomen alas posticas superans. Alæ angustæ. - - - - - lividalis, *Hübn*
B. Alæ fimbria longa.
A. Alæ anticæ linea exteriore recta. - antiqualis, *Hübn.*
B. Alæ anticæ linea exteriore sinuata. - ravalis, *Herr.-Schæff.*

The European species form five groups, of which the first and the second are nearly allied. The third is more distinct, on account of its robust shape and its crested abdomen; it is closely allied to the *Noctuites*, from which some of the exotic species included in it

can hardly be distinguished. The fourth and fifth groups also differ much in structure from *Hypena*, and may be considered as distinct genera.

Group 1.

1. HYPENA OBESALIS.

Alæ anticæ striga posteriore obsoleta irregulari, linea undata maculisque intercostalibus nigris albido cinctis.

Pyralis crassalis, *Hübn. Eur. Schm.* v. f. 8.
Crambus crassatus, *Haw. Lep. Brit.* 366.
Bomolocha crassalis, *Hübn. Verz. Schm.* 343, 3290.
Hypena obesalis, *Treit. Schm.* vi. 27. *Steph. Cat. Brit. Ins.* 2, 157, 6758. *Dup. Lep. Fr.* 357, pl. 235, f. 1. *Eversm. Faun. Volg. Ural.* 448. *Herr.-Schæff. Schm. Eur.* vi. 425, 729. *Guen. Delt. et Pyral.* 28, 18.

South Europe.

2. HYPENA EXTENSALIS.

Cinereo-fuscescens; alæ anticæ lineis nigricantibus, interiore subflexa, exteriore angulata, submarginali undulata, fascia exteriore lituraque obliqua apicali pallidis, lunulis marginalibus nigris; posticæ cinereæ, lunula discali nigricante.

Pyralis palpalis, *Hübn. Eur. Schm.* v. f. 9.
Hypena palpalis, *Hübn. Verz. Schm.* 345, 3305. *Treit. Schm.* vi. 26. *Duponch. Lép. Fr.* 298, pl. 230, f. 2. *Herr.-Schæff. Schm. Eur.* vi. 425.
Hypena extensalis, *Guen. Delt. et Pyral.* 29, 19.

South Europe.

3. HYPENA OBSITALIS.

Albido-cinerea aut fuscescens; alæ anticæ nigro substrigatæ, fascia exteriore albida apud costam flexa et apicem attingente; posticæ fuscescentes, fimbria albida.

Pyralis obsitalis, *Hübn. Verz. Schm.* v. f. 164, 165, 179.
Hypena obsitalis, *Hübn. Verz. Schm.* 345, 3307. *Treit. Schm.* vi. 32. *Dup. Lép. Fr.* 53, pl. 243, f. 1. *Herr.-Schæff. Schm. Eur.* vi. 425. *Guen. Delt. et Pyral.* 29, 20.

South Europe.

Group 2.

4. Hypena proboscidalis.

Pallide cinereo-fusca; abdomen cinerascens, segmentis pallido marginatis; alæ linea marginali nigro-fusca; anticæ lineis tribus fuscis obliquis, 1a subflexa, 2a subrecta, 3a undulata indistincta; posticæ pallide cinereæ.

Pyralis proboscidalis, *Linn. Faun. Suec.* 1346; *Syst. Nat.* ii. 881. *Scop. Ent. Carn.* 606. *Clerck, Icon.* pl. 5, f. 4. *Fabr. Sp. Ins.* ii. 271, 173; *Mant. Ins.* ii. 217, 270. *Wien. Verz.* 119, 1. *Sulz. Hist. Ins.* pl. 23, f. 6. *Gmel. ed. Syst. Nat.* i. 5, 2520, 331. *Kléem, Ins.* pl. 32, f. 1—10. *Brahm, Ins.* 501. *Hübn. Eur. Schm.* v? f. 7.

Phalæna rostralis, *Berk. Syn.* i. 146.

Geometra proboscidalis, *Turt. Syst. Nat.* iii. 274.

Phalæna ensalis, *Fabr. Ent. Syst.* iii. 221.

Crambus proboscidens, *Fabr. Suppl.* 465, 7.

Crambus proboscidatus, *Haw. Lep. Brit.* 365, 1.

Hypena proboscidalis, *Treit. Schm.* 22. *Dup. Lép. Fr.* 42, pl. 212, f. 2. *Steph. Ill. Brit. Haust.* iv. 11, 1. *Wood, I. E.* 758. *Herr.-Schæff. Schm. Eur.* vi. 426. *Guen. Delt. et Pyral.* 30, 24.

Macrochile proboscidalis, *Hübn. Verz. Schm.* 345, 3302.

a—i. England. From Mr. Stephens' collection.

j—m. England.

n—o. Europe. From M. Becker's collection.

5. Hypena rostralis.

Cinereo-ferruginea (mas) *aut ferrugineo-cinerea* (fœm.); *abdomen pallide cinereum; alæ anticæ lineis tribus undulatis pallidioribus plus minusve indistinctis, orbiculari annuliformi, reniformi incompleta, lunulis marginalibus nigris; posticæ pallide cinereæ, linea marginali fusca.* Fœm.—*Alæ anticæ linea discali interrupta atra.*

———— ————, *Roës. Ins.* 1. *Phal.* 4, pl. 6. *Rai, Ins.* 214, 9.

Pyralis rostralis, *Linn. Faun. Suec.* 1347; *Syst. Nat.* ii. 881. *Fabr. Sp. Ins.* ii. 271, 174; *Mant. Ins.* ii. 217, 271. *Wien. Verz.* 119, 3. *Gmel. ed. Syst. Nat.* i. 5, 2520, 332. *Brahm, Ins.* 97. *Hübn. Eur. Schm.* v. f. 10.

Phalæna palpalis, *Fabr. Ent. Syst.* iii. 223.
Phalæna hispidata? *Fabr. Ent. Syst.* iii. 351, 301.
Crambus rostratus, *Fabr. Ent. Syst. Suppl.* 11. *Haw. Lep. Brit.* 366.
Geometra rostralis, *Turt. Syst. Nat.* iii. 274.
Pyralis tinealis, *Wien. Verz. Pyr.* 4.
Hypena rostralis, *Hübn. Verz. Schm.* 345, 3308. *Treit. Schm.* 30. *Duponch. Lép. Fr.* 46, pl. 212, f. 6. *Steph. Ill. Brit. Haust.* iv. 12, 4. *Wood, I. E.* f. 761. *Herr.-Schæff. Schm. Eur.* 425. *Guen. Delt. et Pyral.* 31, 26.

a—v. England. From Mr. Stephens' collection.
u—y. England.
z. Teneriffe.
aa—cc. Nice. From Dr. Leach's collection.
ff—hh. Italy. Presented by Dr. Dowler.
ii. Europe. From M. Becker's collection.

Group 3.

6. Hypena crassalis.

Ferrugineo-fusca; abdomen cinerascens, cristis tribus nigris; alæ anticæ margine interiore spatioque exteriore glaucescentibus albo marginatis, striga obliqua apicali nigro-fusca, maculis submarginalibus nigris albo marginatis, orbiculari et reniformi atris; posticæ cupreo-cinereæ.

Crambus crassalis, *Fabr. Ent. Syst.* iii. 466, 349.
Pyralis achatalis, *Hübn. Eur. Schm.* v. f. 12.
Crambus achatatus, *Haw. Lep. Brit.* 367.
Bomolocha crassalis, *Hübn. Verz. Schm.* 343, 3290.
Hypena crassalis, *Treit. Schm.* 24. *Duponch. Lép. Fr.* 50, pl. 212, f. 3. *Curt. Brit. Ent.* pl. 288. *Steph. Ill. Brit. Haust.* iv. 13, 5. *Herr.-Schæff. Schm. Eur.* vi. 426. *Guen. Delt. et Pyral.* 33, 30.
Pyralis terriculalis? *Hübn. Eur. Schm.* v. f. 163.
Bomolocha terriculalis? *Hübn. Verz. Schm.* 343, 3292.

a. England. Presented by E. A. P. Brune, Esq.
b, c. Devonshire. Presented by W. R. H. Jordan, Esq.
d—t. England. From Mr. Stephens' collection.
v—w. Europe. From M. Becker's collection.

Group 4.

7. Hypena lividalis.

Glauco-cinerea; alæ linea marginali nigra, fimbria pallida; anticæ linea obliqua recta pallida, costa margineque cervinis.

Pyralis lividalis, *Hübn. Eur. Schm.* v. f. 11, 186.
Hypena lividalis, *Treit. Schm.* 33. *Duponch. Lép. Fr.* 55, pl. 243, f. 3. *Herr.-Schæff. Schm. Eur.* vi. 426. *Guen. Delt. et Pyral.* 38, 39.
Ophiuche lividalis, *Hübn. Verz. Schm.* 344, 3294.
South Europe.

Group 5.

8. Hypena antiqualis.

Schistacea; alæ linea marginali albida nigro guttata; anticæ lineis undulatis angulatis, linea interiore cervina antice albida, exteriore albida postice extus cervino et nigro marginata, submarginali e strigis nigris, litura subapicali alba, linea marginali cervina; posticæ nigro-cinereæ.

Pyralis antiqualis, *Hübn. Eur. Schm.* v. f. 152.
Bomolocha antiqualis, *Hübn. Verz. Schm.* 343, 3291.
Hypena antiqualis, *Treit. Schm.* 28. *Duponch. Suppl.* 376, pl. 80, f. 6. *Herr.-Schæff. Schm. Eur.* vi. 425. *Guen. Delt. et Pyral.* 38, 41.
Italy. Dalmatia.

9. Hypena ravalis.

Glaucescente-cinerascens; alæ anticæ lineis duabus extremis subsinuatis non distinctis, linea exteriore rufescente suffusa, striga discali obliqua nigra.

Hypena ravalis, *Herr.-Schæff. Schm. Eur.* 613, f. 425. *Guen. Delt. et Pyral.* 39, 42.
Amasieh.

North America.

A. Statura robusta.
  A. Alæ anticæ albido variæ.
    A. Alæ anticæ margine interiore non albido.
      a. Alæ anticæ fascia lata exteriore albida.
        baltimoralis, *Guen.*
      b. Alæ anticæ lineis duabus exterioribus albidis.
        abalienalis, *Walk.*
      c. Alæ anticæ linea nulla exteriore albida. manalis, *Walk.*
    B. Alæ anticæ margine interiore albido.
      a. Alæ anticæ striga apicali nigra. - benignalis, *Walk.*
      b. Alæ anticæ striga nulla apicali. - bijugalis, *Walk.*
  B. Alæ anticæ albido non variæ.
    A. Alæ anticæ roseo et viridescente tinctæ. madefactalis, *Guen.*
    B. Alæ anticæ obscuræ.
      a. Alæ anticæ subfalcatæ.
        i. Alæ anticæ lineis non diffusis.
          * Major. Alæ anticæ latiores. - scabralis, *Fabr.*
          ** Minor. Alæ anticæ angustiores. erectalis, *Guen.*
        ii. Alæ anticæ lineis diffusis. - caducalis, *Walk.*
        iii. Alæ anticæ lineis nullis. - - germanalis, *Walk.*
      b. Alæ anticæ non falcatæ. - - - cæcalis, *Walk.*
B. Statura gracilis.
  A. Palpi longiusculi.
    A. Alæ non longiusculæ.
      a. Palpi articulo 3o non longissimo.
        i. Alæ latiusculæ.
          * Alæ anticæ linea interiore non albida.
            † Alæ anticæ nigro conspersæ. edictalis, *Walk.*
            †† Alæ anticæ nigro non conspersæ.
              ‡ Alæ punctis nullis marginalibus.
                damnosalis, *Walk.*
              ‡‡ Alæ punctis marginalibus nigris.
                generalis, *Walk.*
          ** Alæ anticæ linea interiore albida.
            deceptalis, *Walk.*
        ii. Alæ sat angustæ.
          * Alæ anticæ cinereo-fuscæ. - eductalis, *Walk.*
          ** Alæ anticæ cervinæ. - - factiosalis, *Walk.*
      b. Palpi articulo 3o longissimo. - cacuminalis, *Walk.*
    B. Alæ longiusculæ. - - - - fallacialis, *Walk.*
  B. Palpi breviusculi. - - - - - habitalis, *Walk.*

The North American species will form eight groups. The first corresponds to the second, and the second to the third, of the European groups; the third much resembles the second, but differs in the markings of the fore wings; the fourth differs from the first in the more oblique exterior border of the fore wings; the fifth has some resemblance to *Herminia* in the structure of the palpi; in the sixth the fore wings are less ample, and in the seventh they are more elongate than those of the first group; the eighth is distinguished by its short palpi.

Group 1.

10. Hypena edictalis.

Fœm. *Fuscescente-cinerea, fusco conspersa; palpi thorace non breviores; alæ amplæ, lunulis marginalibus fuscis; anticæ subfalcatæ, spatio medio subchalybeo, linea interiore angulata, exteriore obliqua subundulata, submarginali e lituris nigris, nebulis marginalibus ferrugineo-fuscis, orbiculari et reniformi nigris distinctis.*

Female. Brownish cinereous. Thorax and fore wings speckled with brown. Palpi moderately pilose, as long as the thorax. Wings ample; marginal lunules brown. Fore wings subfalcate; space between the interior and exterior brown lines somewhat chalybeous; interior line angular; exterior line oblique, slightly undulating; submarginal line distinguished by some black marks; space between it and the exterior border partly shaded with ferruginous-brown; orbicular and reniform marks black, distinct. Hind wings brownish cinereous; under side paler, with the discal mark distinct, but without lines. Length of the body 5½—6½ lines; of the wings 16—18 lines.

Var. β. Interior and exterior lines of the fore wings more straight and whitish.

a—d United States. Presented by E. Doubleday, Esq.
e—g. Orilla, West Canada. From Mr. Bush's collection.

11. Hypena damnosalis.

Mas et fœm. *Cinereo-fusca; palpi obscure fusci, thorace breviores, fasciculo apicali truncato; alæ anticæ non falcatæ, subpurpurascentes, spatio medio et margine exteriore obscu-*

rioribus, lineis interiore et exteriore fuscis subundulatis, hac pallido marginata, linea submarginali undulata interrupta maculaque trigona apicali pallidis, orbiculari nigricante punctiformi, reniformi indistincta.

Male and female. Cinereous-brown. Palpi dark brown, shorter than the thorax; apical tuft truncated. Fore wings moderately broad, rectangular at the tips, not subfalcate, with a very slight lilac tinge, somewhat darker about the exterior border and between the interior and exterior brown slightly undulating lines; exterior line with a pale outer border; submarginal line pale, undulating, interrupted, contiguous in front to the pale triangular apical spot; orbicular mark blackish, punctiform; reniform indistinct. Hind wings pale, with the lines visible beneath; marginal line brown, like that of the fore wings. Length of the body 5 lines; of the wings 13 lines.

a, *b*. United States. Presented by E. Doubleday, Esq.

12. HYPENA GENERALIS.

Fœm. *Fuscescente-cervina, subtus cinerea; palpi acuti, porrecti, thorace vix breviores; alæ anticæ pallide cinereæ, apud costam subtestaceæ, lineis quatuor fuscescente-cervinis, interiore et exteriore concisis denticulatis, media et submarginali valde diffusis, reniformi puncta dua nigra includente, guttis marginalibus nigris; posticæ cinereæ, lineis subtus bene determinatis.*

Female. Brownish fawn-colour, cinereous beneath, where the hind wings have the lines well defined. Palpi acute, porrect, nearly as long as the thorax. Abdomen pale cinereous. Fore wings pale cinereous, with a slight testaceous tinge along the costa; four brownish fawn-coloured lines; interior and exterior lines concise, denticulated; middle and submarginal lines very diffuse; orbicular and reniform a little paler than the ground-colour of the wing, the former forming a dot, the latter of the usual shape, containing two black points; marginal dots black, more distinct than those of the cinereous hind wings. Length of the body 5½ lines; of the wings 15 lines.

a. Philadelphia. Presented by E. Doubleday, Esq.

13. HYPENA DECEPTALIS.

Fœm. *Cinereo-fusca; abdomen cristatum; palpi thorace vix breviores; alæ anticæ subfalcatæ, spatio marginali pallidæ, lineis interiore et exteriore albido-cinereis bene determinatis, interiore subundulata, exteriore obliqua subrecta, submarginali fusca interrupta denticulata indistincta, orbiculari e gutta nigricante, reniformi subobsoleta.*

Female. Cinereous-brown. Abdomen cinereous, with slight dark brown crests. Palpi almost as long as the thorax; third joint slightly pilose, about one fourth of the length of the second. Fore wings subfalcate, moderately broad, mostly paler beyond the exterior line; interior and exterior lines whitish cinereous, very distinct; interior line slightly undulating; exterior line oblique, almost straight; submarginal line brown, interrupted, denticulated, not distinct; orbicular mark forming a blackish dot; reniform almost obsolete; marginal line brown with a pale outer border, as it is also in the pale cinereous hind wings. Length of the body 5 lines; of the wings 13 lines.

a.—c. New York. Presented by E. Doubleday, Esq.

Var. β. *Cinerea fusco conspersa; alæ lineis interiore et exteriore albidis, hac flexa intus fusco marginata, illa subundulata, linea submarginali albida denticulata nigricante guttata, maculis duabus costalibus pallide cinereis, orbiculari e gutta nigra.*

Var. β. Cinereous, speckled with brown, whitish cinereous beneath. Wings with a testaceous marginal line edged with brown on the inner side. Fore wings with the interior and exterior lines whitish, more apart on the costa than on the interior border; interior line slightly undulating; exterior line with an outward bend in front; a diffuse brown band along its inner side; submarginal line whitish, denticulated, accompanied by blackish dots; a pale cinereous costal spot on its outer side, and another on the outer side of the exterior line; orbicular mark forming a black dot. Hind wings cinereous, paler towards the border, with a small brown discal mark beneath. Length of the body 5½ lines; of the wings 14 lines.

d. United States. Presented by E. Doubleday, Esq.

Var. γ. Obscure fusca ; alæ anticæ nigro subconspersæ, lineis tribus pallide cinereis, interiore subangulata, exteriore subundulata, submarginali denticulata, lituris contiguis diffusis nigricantibus, plaga apicali pallide cinerea.

Var. γ. Dark brown. Fore wings very minutely speckled with black, with three pale cinereous lines; interior line forming a slight angle in front and another hindward; exterior line slightly undulating; submarginal line denticulated, with diffuse blackish marks along its inner side, ending in a pale cinereous apical patch.

e—g. United States. Presented by E. Doubleday, Esq.

Group 2.

14. HYPENA BALTIMORALIS.

Fusca ; thorax cinereo conspersus, abdomen pallidum, cristis nigris ; alæ lunulis marginalibus nigris ; anticæ basi et triente marginali albidis fusco variis, litura subapicali rectangulata, punctis duobus contiguis et orbiculari atris, reniformi atro submarginata ; posticæ pallide cinereæ.

Hypena Baltimoralis, *Guen. Delt. et Pyral.* 34, 31.

a.—c. New York. Presented by E. Doubleday, Esq.
d. Nova Scotia. From Lieut. Redman's collection.

15. HYPENA ABALIENALIS.

Obscure fusca, subtus cinerea ; palpi breves ; abdomen cristatum ; alæ anticæ linea interiore undulata albida sæpissime subobsoleta, exteriore flexa interlineata, guttis contiguis fuscis, litura angulata subapicali maculaque costali trigona obscure fuscis subcontiguis, orbiculari et reniformi atris, hac incompleta ; posticæ fuscæ, lineis subtus distinctis.

Nearly allied to *H. crassalis* and to *H. baltimoralis*. Dark brown, cinereous beneath where the lines are distinctly marked on the hind wings. Palpi short. Abdomen brownish cinereous, with darker crests. Wings with blackish marginal lunules. Fore wings with the interior line undulating, whitish, generally almost obsolete; exterior line bent, interlined, accompanied along its outer side by

various dark brown dots; a dark brown angular subapical mark almost contiguous to a dark brown triangular costal spot; orbicular and reniform deep black, the latter incomplete. Hind wings brown. Length of the body 5 lines; of the wings 13 lines.

a.—c. New York. Presented by E. Doubleday, Esq.

16. Hypena benignalis.

Fœm. *Pallide cinerea; fasciculus frontalis fuscescens, albo marginatus; palpi thorace paullo breviores, articuli 3i apice albo; thorax fasciis duabus ferrugineo-fuscis; alæ anticæ plaga maxima ferrugineo-fusca nigro marginata, strigâ costali obliqua nigricante, linea submarginali e guttis albidis nigro notatis, orbiculari e gutta nigra.*

Female. Pale cinereous. Frontal tuft brownish, with a white line on each side. Palpi ferruginous-brown, broadly tufted, hardly ascending, a little shorter than the thorax; third joint white at the tip, full one-fourth of the length of the second, with which it forms an angle. Thorax with two ferruginous-brown bands in front. Abdomen not crested. Fore wings hardly subfalcate; nearly two-thirds of the length occupied by a ferruginous-brown patch, which proceeds from the base, and occupies the costa, but does not extend to the interior border; its outline is black and somewhat indented and angular; a blackish costal oblique streak nearly joining the patch; submarginal line composed of whitish black-marked dots; marginal lunules blackish; orbicular mark forming a black dot. Length of the body 5 lines; of the wings 13 lines.

a. Nova Scotia. From Lieut. Redman's collection.

17. Hypena bijugalis.

Fœm. *Pallide cinerea; palpi thorace breviores; alæ anticæ plaga maxima nigro-fusca posticæ albo marginata, linea submarginali e maculis diffusis nigricantibus, spatio marginali fuscescente, punctis marginalibus nigris, orbiculari e gutta nigra.*

Female. Pale cinereous. Palpi shorter than the thorax; their plumes not extending to the tip of the third joint. Fore wings blackish brown for full half the length from the base, except along

the interior border; the outline of this dark part is slightly excavated and bordered with white towards the base on its hind side, and is slightly oblique on its exterior side, where it has an obtuse indented tooth; submarginal line composed of diffuse blackish spots; space between it and the exterior border brownish; marginal points black, orbicular mark forming a black dot. Length of the body 5 lines; of the wings 12 lines.

a. Nova Scotia. From Lieut. Redman's collection.

18. Hypena manalis.

Mas. *Pallide cinerea; palpi fusci; thorace fuscescens; abdomen subcristatum; alæ anticæ vix falcatæ, basi et apud marginem exteriorem fuscescentes, plaga magna obliqua subrhomboidali nigro-fusca, striga apicali lata obliqua pallida postice nigricante marginata, linea submarginali e guttis nigricantibus.*

Male. Pale cinereous. Palpi brown, slightly pilose, moderately long; third joint whitish at the tip, full half the length of the second, with which it forms a distinct angle. Thorax brownish. Abdomen slightly crested. Fore wings hardly falcate, brownish at the base and along the exterior border, with a large oblique subrhomboidal blackish brown patch, which has a whitish border and whose hind angles are rounded; a broad pale oblique apical streak, which has an irregular blackish hind border; submarginal line composed of blackish dots. Hind wings without markings. Length of the body $3\frac{1}{2}$—4 lines; of the wings 9—10 lines.

a, *b*. United States. Presented by E. Doubleday, Esq.

19. Hypena madefactalis.

H. vetustali *affinis; alæ anticæ costam versus fuscæ postice cinerascentes roseo et viridescente nitentes, linea submarginali pallidiore undulata, macula magna trigona marginali saturate fusca; posticæ pallide fuscæ.*

Hypena madefactalis, *Guen. Delt. et Pyral.* 35, 33.

North America.

Group 3.

20. Hypena scabralis.

Ferrugineo-fusca; palpi thorace breviores, fasciculo apicali truncato inciso; abdomen fusco-cinerascens, cristis nigricantibus; alæ anticæ angustæ, subfalcatæ, apud angulum interiorem dentatæ, cinereo plus minusve variæ, squamis nonnullis nigris, lituris discalibus et subapicali nigris nonnunquam obsoletis; posticæ æneo-fuscæ.

Hypena scabralis, *Guen. Delt. et Pyral.* 40, 45.
Hyblæa scabra, *Fabr. Ent. Syst. Suppl.* 4.
Crambus palpatus, *Haw. Lep. Brit.* 366.
Hypena palpalis, *Steph. Ill. Brit. Haust.* iv. 12, 3. *Wood*, f. 760.

Var. *Ferruginea, subtus fuscescente-cinerea; abdomen cinereum, cristis nigricantibus; palpi thorace breviores, articulo 3o brevissimo sat obtuso; alæ anticæ fusco conspersæ cinereo variæ, striga nonnunquam pallide cinerea obliqua apicali, lineis interiore, exteriore et submarginali obscure fuscis undulatis denticulatis, interiore nigra postice magis determinata, orbiculari e gutta nigra, reniformi indistincta, punctis marginalibus nigris; posticæ æneo-cinereæ, fimbria pallidiore.*

Female. Ferruginous, brownish cinereous beneath. Abdomen cinereous, with blackish crests. Palpi rather shorter than the thorax: third joint rather short and obtuse. Fore wings speckled with dark brown, more or less varied with cinereous, sometimes with a pale cinereous oblique apical streak; interior, exterior and submarginal lines dark brown, undulating, denticulated; exterior line black and more distinct towards the interior border; orbicular mark forming a black dot; reniform indistinct; marginal points black. Hind wings æneous-cinereous; fringe paler. Length of the body 5—6 lines; of the wings 12—15 lines.

a—f. Georgia. From Mr. Abbot's collection.
g. Philadelphia. Presented by E. Doubleday, Esq.
h—o. Trenton Falls, New York. Presented by E. Doubleday, Esq.
p—v. United States. Presented by E. Doubleday, Esq.
u. Nova Scotia. From Lieut. Redman's collection.
w. Massachusetts. From Prof. Sheppard's collection.

21. Hypena erectalis.

H. scabrali *simillima, minor; palporum articulus 2us longior; alæ anticæ angustiores, nigricante-cinereæ, fusco et flavescente variæ, nigro conspersæ, linea submarginali pallida indeterminata, linea adhuc exteriore nigricante, gutta apud angulum interiorem nigra.*

Crambus crassatus, *Haw. Lep. Brit.* 366.
Hypena obesalis, *Steph. Ill. Brit. Haust.* iv. 11, 2. *Wood*, f. 759.
Hypena erectalis, *Guen. Delt. et Pyral.* 40, 46.
Hypena scabralis, *var.?*
North America.

22. Hypena caducalis.

Mas. *Cinereo-fusca, subpurpurascens; palpi thorace breviores, articuli 3i apice albo; abdomen cristatum; alæ anticæ subfalcatæ, lineis obscure fuscis subundulatis, exteriore et submarginali valde diffusis, striga apicali obliqua diffusa obscure fusca.*

Male. Cinereous-brown, with a slight purplish tinge. Palpi porrect, broadly tufted, shorter than the thorax; third joint tufted almost to the tip, which is white, about one-third of the length of the second. Abdomen crested. Fore wings subfalcate; lines dark brown, slightly undulating; exterior and submarginal lines very diffuse, the former nearer to the interior one hindward than on the costa; an oblique diffuse dark brown apical streak; a brown marginal line like that of the hind wings, which have no markings. Length of the body 5½ lines; of the wings 14 lines.

a, b. United States. Presented by E. Doubleday, Esq.

23. Hypena germanalis.

Mas. *Fuscescente-cinerea, nigro conspersa; palpi thorace paullo breviores, articulo 3o brevissimo; alæ anticæ sat angustæ non falcatæ, lineis obsoletis, orbiculari e gutta nigra, gutta posteriore nigra, reniformi e punctis duobus nigricantibus, lunulis marginalibus nigris, fimbria interlineata.*

Male. Brownish cinereous, speckled with black. Palpi hardly ascending, broadly tufted above, a little shorter than the thorax; third joint tufted to the tip, less than one-fourth of the

length of the second, with which it forms a slight angle. Abdomen pale cinereous, not crested. Fore wings rather narrow, rectangular at the tips, not subfalcate; exterior border almost straight; lines obsolete; orbicular mark forming a small black dot, behind which there is another one; reniform represented by two blackish points; marginal lunules black; fringe interlined. Hind wings pale cinereous; fringe paler; marginal line brown. Length of the body 5½ lines; of the wings 14 lines.

a. Nova Scotia. From Lieut. Redman's collection.

24. Hypena cæcalis.

Mas. *Obscure ferrugineo-fusca, subtus cinerea; palpi breviusculi, porrecti, subtus albidi, articulo 3o minimo; alæ fimbria pallide cinerea interlineata; anticæ angustæ, fusco subconspersæ, apice subrotundatæ, lineis interiore et exteriore nigricantibus denticulatis indistinctis, orbiculari nigricante punctiformi, reniformi nigro submarginata, punctis marginalibus nigricantibus; posticæ fuscescente-cinereæ, lituru discali fasciaque exteriore subtus fuscis.*

Male. Dark ferruginous-brown, cinereous beneath. Palpi quite porrect, whitish beneath, less than twice the length of the head; third joint very minute. Abdomen and hind wings brownish cinereous, shining. Wings with a pale cinereous interlined fringe. Fore wings narrow, somewhat rounded at the tips, with minute dark brown speckles; interior and exterior lines blackish, denticulated, indistinct; orbicular mark forming a minute blackish dot; reniform with an incomplete black border; marginal points blackish. Wings beneath with a brown discal mark and an exterior brown band. Length of the body 5 lines; of the wings 12 lines.

a. Nova Scotia. From Lieut. Redman's collection.

Group 4.

25. Hypena eductalis.

Mas et fœm. *Cinereo-fusca; palpi thorace non breviores; alæ sat angustæ, fimbria interlineata; anticæ acutæ, non subfalcatæ, vix purpurascentes, fusco ex parte nebulosæ, margine exteriore perobliquo, lineis interiore et exteriore pallidis subundulatis, linea submarginali nigricante albido punctata, punctis marginalibus albidis, orbiculari e gutta nigra.*

Male and female. Cinereous-brown. Palpi porrect, slightly tufted, as long as the thorax; third joint lanceolate, about one-third of the length of the second, with which it forms a slight angle. Abdomen not crested. Wings rather narrow; marginal line brown; fringe interlined. Fore wings acute, not subfalcate, with a very slight lilac tinge, partly shaded with darker brown; exterior border very oblique; interior and exterior lines pale, slightly undulating; exterior line more oblique than the interior one, to which it is very much nearer on the interior border than on the costa; submarginal line blackish, undulating, accompanied by whitish points; marginal points whitish; orbicular mark forming a black dot. Hind wings cinereous. Length of the body 4 lines; of the wings 11 lines.

a, *b*. United States. Presented by E. Doubleday, Esq.
c. Nova Scotia. From Lieut. Redman's collection.

Group 5.

26. HYPENA CACUMINALIS.

Mas. *Cinereo-fusca; palpi longi; articulus 3us 2i dimidio fere longior; alæ latiusculæ, punctis marginalibus nigris; anticæ vix falcatæ, lineis fuscescentibus denticulatis diffusis valde indistinctis.*

Male. Cinereous-brown. Palpi long, obliquely ascending, slightly tufted; third joint lanceolate, full half the length of the second, with which it forms a slight angle. Abdomen not crested. Wings rather broad; marginal points black. Fore wings hardly subfalcate; lines brownish, denticulated, diffuse, very indistinct, apparent also on the hind wings. Length of the body 6 lines; of the wings 14 lines.

This species has the acute frontal tuft of the *Hypenidæ*, but its palpi are somewhat like those of *Herminia*.

a. United States. Presented by E. Doubleday, Esq.

Group 6.

27. HYPENA FACTIOSALIS.

Mas. *Cervina, fusco conspersa; palpi obscure fusci, thorace vix breviores; abdomen fuscescente-cinereum, non cristatum; alæ sat angustæ, lunulis marginalibus nigris; anticæ acutæ, non*

falcatæ, apud costam nigricantes, lineis duabus purpureo-nigricantibus diffusis vix undulatis, exteriore lineam cervinam denticulatum includente, reniformi e guttis duabus nigris; posticæ cinereæ.

Male. Fawn-colour speckled with brown. Palpi dark brown, moderately tufted, slightly ascending, almost as long as the thorax; third joint lanceolate, whitish at the tip, about one-third of the length of the second. Abdomen brownish cinereous, not crested. Wings rather narrow; marginal lunules black. Fore wings acute, not subfalcate, mostly blackish along the costa; two blackish diffuse hardly undulating lines with a purplish tinge, the exterior one containing a denticulated fawn-coloured line; reniform mark distinguished by two black dots. Hind wings cinereous; lines indistinctly apparent, as they are also on the under side of the wings. Length of the body 4 lines; of the wings 11 lines.

a. United States. Presented by E. Doubleday, Esq.

Group 7.

28. HYPENA FALLACIALIS.

Mas et fœm. *Testacea aut subochracea; palpi thorace vix breviores; abdomen pallide cinereum, non cristatum; anticæ subfalcatæ, lineis fuscescentibus denticulatis indistinctis nonnunquam guttularibus sæpe obsoletis, orbiculari et reniformi testaceis, hac nonnunquam nigro bipunctata aut nigra, punctis marginalibus nigris.*

Male and female. Testaceous or slightly ochraceous. Palpi very slightly ascending, moderately tufted, nearly as long as the thorax; third joint lanceolate, about one-third of the length of the second, with which it forms a slight angle. Abdomen pale cinereous, not crested. Wings moderately broad. Fore wings slightly subfalcate; lines brownish, denticulated, indistinct, occasionally composed of dots, often obsolete, the submarginal one sometimes accompanied by whitish or testaceous points; orbicular and reniform marks testaceous, the latter frequently with two black points, rarely quite black; marginal points black. Hind wings with markings less distinct than those of the fore wings. *Var.*—Fore wings with the interior and exterior lines straight, the latter appearing also on the hind wings. Length of the body 4—6 lines; of the wings 10—14 lines.

a—h. United States. Presented by E. Doubleday, Esq.

Group 8.

29. HYPENA HABITALIS.

Mas. *Rufescente lateritia; palpi breves; abdomen cinereum, apice rufescens, non cristatum; alæ angustæ, punctis marginalibus nigris; anticæ vix falcatæ, lineis interiore et exteriore nigricantibus subobliquis subrectis, submarginali subundulata e punctis albis nigro notatis, reniformi nigricante; posticæ cinereæ, venis extus fimbriaque rufescentibus.*

Male. Reddish brick-colour, partly cinereous beneath. Palpi short, obliquely ascending, very slightly pilose, much less than twice the length of the head; third joint cylindrical, full half the length of the second, with which it forms an angle. Abdomen cinereous, reddish at the tip, not crested. Wings narrow; marginal points black. Fore wings very slightly subfalcate; interior and exterior lines blackish, slightly oblique, nearly straight; submarginal line slightly undulating, composed of white black-marked points; reniform mark blackish, of the usual form. Hind wings cinereous; veins exteriorly and fringe reddish; the lines apparent on the under side. Length of the body 4 lines; of the wings 10 lines.

a. United States. Presented by E. Doubleday, Esq.

Mexico.

The only Mexican species belongs to a section which is quite distinct from all the preceding and all the following groups, with the exception of the ninth South American group. It is distinguished by the colour of the wings, by the quadrate form of the fore wings, and by the long straight stout palpi, of which the third joint does not form an angle with the second.

30. HYPENA ABRASALIS.

Mas. *Viridescente-lutea; caput rufescens; palpi extus rufi, apice nigricantes; abdomen luteum; alæ anticæ apud costam albido-cinereæ, lineis interiore et exteriore albidis obliquis vix undulatis apud costam obsoletis, reniformi nigra, fimbria purpurascente-rufa; posticæ luteæ.*

Male. Like *H. absorptalis* in structure. Greenish luteous, pale beneath. Head reddish. Palpi red above and on the outer

side, blackish at the tips. Abdomen luteous, paler at the tip. Fore wings whitish cinereous along the costa; interior and exterior lines whitish, oblique, hardly undulating, obsolete towards the costa; exterior line more oblique and undulating than the interior one, and nearer to it on the interior border than by the costa; reniform mark forming a black spot; fringe purplish red, and short like that of the hind wings, which are bright luteous. Length of the body 6 lines; of the wings 14 lines.

a. Mexico. From M. Sallé's collection.

West Indies.

Two species which belong to the third European group.

31. Hypena pilosalis.

Ferrugineo-fusca; palpi longiusculi; abdomen alæque posticæ cinereo-fuscescentia; alæ anticæ subfalcatæ, squamis nonnullis nigris, marginibus interiore et exteriore arcuato-cinereis, striga interiore obliqua albida, linea exteriore fusca vix undulata, submarginali indistincta, orbiculari punctiformi et reniformis margine incompleto nigris; alæ posticæ maris fimbria apud marginem interiorem latissima.

Hypena pilosalis, *Guen. Delt. et Pyral.* 33, 28, mas.
Hypena subidalis, *Guen. Delt. et Pyral.* 32, 27, fœm.

a—c. St. Domingo. From Mr. Tweedie's collection.
d. West Indies.
e, f. Rio Janeiro. From Mr. Stevens' collection.
g. Honduras. From Mr. Miller's collection.

32. Hypena vetustalis.

Ferrugineo-fusca; abdomen fusco-cinereum, cristis obscurioribus; palpi thorace breviores, fasciculo apicali obtuso; alæ anticæ vix subfalcatæ, squamis nigris, fascia exteriore, litura apicali nebulisque nonnullis glaucescente-albidis, lineis interiore et exteriore ferruginosis, hac vix arcuata, illa angulata, submarginali indistincta, lunulis marginalibus nigricantibus albido marginatis, orbiculari et reniformi nigris; posticæ cupreo-fuscæ, fimbria pallida.

Hypena vetustalis, *Guen. Delt. et Pyral.* 35, 32.

a, b. St. Domingo. From Mr. Tweedie's collection.

South America.

A. Alæ anticæ non ochraceæ nec testaceæ.
A. Alæ non longæ.
a. Alæ posticæ apud marginem exteriorem non nigricantes.
a. Alæ anticæ striga nulla costali albida.
i. Alæ anticæ spatio exteriore non obscuriore.
* Alæ anticæ fasciculo nullo discali.
† Alæ anticæ macula nulla postica pallida.
‡ Alæ anticæ cervinæ. - porrectalis, *Guen.*
‡‡ Alæ anticæ non cervinæ.
§ Alæ anticæ sat angustæ.
× Alæ anticæ linea exteriore non obliqua.
→ Alæ anticæ linea exteriore denticulata.
exoletalis, *Guen.*
→→ Alæ anticæ linea exteriore non denticulata.
pacificalis, *Walk.*
×× Alæ anticæ linea exteriore obliqua.
→ Palpi nigricantes.
abscisalis, *Walk.*
→→ Palpi non nigricantes.
obditalis, *Walk.*
§§ Alæ anticæ latiusculæ.
× Alæ anticæ non plagiatæ.
→ Alæ anticæ linea nulla pallida.
++ Alæ anticæ litura subapicali alba.
ᔕ Alæ anticæ apud marginem exteriorem nigricante nebulosæ.
crambalis, *Guen.*
ᔓ Alæ anticæ nigricante non nebulosæ.
securalis, *Guen.*
++++ Alæ anticæ litura nulla alba.

∽ Palpi breves.
latalis, *Guen.*
ꟻ Palpi non breves.
exceptalis, *Walk.*
+ + Alæ anticæ linea discali pallida. exoticalis, *Guen.*
×× Alæ anticæ plagiatæ.
subidalis, *Guen.*
†† Alæ anticæ macula postica pallida.
internalis, *Guen.*
** Alæ anticæ fasciculo discali squamoso.
minualis, *Guen.*
ii. Alæ anticæ spatio exteriore obscuriore.
abscondalis, *Walk.*
b. Alæ anticæ striga costali albida. - mactatalis, *Walk.*
B. Alæ posticæ apud marginem interiorem nigricantes.
comptulalis, *Guen.*
B. Alæ longæ. - - - - - - jactatalis, *Walk.*
B. Alæ anticæ testaceæ. - - - - - - obagitalis, *Walk.*
C. Alæ anticæ ochraceæ. - - - - - illapsalis, *Walk*

Of the nine following groups the first corresponds with the first European group; the second belongs to the third European group; the third to the fourth European group; the fourth to the fourth North American group; the fifth group distinguished by its broad and short wings; the sixth is characterized by its short palpi, and by the regular and nearly parallel lines of the fore wings; the seventh is peculiarly distinguished by the length of its wings; the eighth by the small size of the species, and by the markings of the fore wings; the ninth belongs to the Mexican group.

Group 1.

33. Hypena exoletalis.

Fusca, nigro conspersa; palpi longi, squamosi, articulo 3o brevi apice setiformi; abdomen cinerascens; alæ anticæ lineis interiore et exteriore fuscis angulatis, striga intermedia obliqua atra postice dilatata, linea exteriore albo marginata, linea submarginali denticulata strigaque obliqua apicali albis, lunulis marginalibus atris albo marginatis; posticæ cinereo-fuscæ.

Hypena exoletalis, *Guen. Delt. et Pyral.* 29, 21.

a. Rio Janeiro. From Mr. Lamb's collection.

Var.? Female. Cinereous-brown. Fore wings slightly speckled with black; interior and exterior lines ferruginous, bordered with white, with a few slight angles; submarginal line black, more denticulated, diffusedly bordered with white on the outer side; a broad white subapical streak and white costal points; marginal lunules black, bordered with white on the inner side and contiguous to the ferruginous marginal line; a black basal point; orbicular mark forming a black dot, having another black dot behind it; fringe interlined, like that of the hind wings, which are without markings. Length of the body 3½ lines; of the wings 9 lines.

a. St. Domingo. From Mr. Tweedie's collection.

34. Hypena exoticalis.

H. rostrali *et* H. obsitali *simillima; alæ anticæ linea exteriore flexa tremula, fascia adhuc exteriore diffusa contigua subalbida alæ apicem attingente, linea discali pallida; posticæ fimbria albido varia.*

Hypena exoticalis, *Guen. Delt. et Pyral.* 30, 22.

Var.? Female. Cinereous-brown, paler beneath. Palpi porrect, rather slender, slightly pilose, a little shorter than the thorax; third joint very slender, about one-third of the length of the second, with which it forms a slight angle. Fore wings subfalcate, rather long and narrow; lines black; exterior line undulating, abbreviated near the costa by a whitish testaceous elongated patch, which is almost interrupted in the middle and extends to the tip of the costa; it contains two black dots which with others hindward form the submarginal line; a row of marginal whitish testaceous streaks, which are interrupted by the black marginal lunules. Hind wings brown, with a testaceous marginal line, which is bordered with dark brown. Length of the body 5 lines; of the wings 13 lines.

Brazil. In Mr. Saunders' collection.

Group 2.

35. Hypena subidalis.

Fœm. *Pallide cinerea; alæ anticæ latiusculæ, nigricante conspersæ, vix falcatæ, basi flavescente-fusco conspersæ, plaga trigona nigro-fusca apice incisa, strigis marginalibus contiguis nigris; posticæ lituris nullis.*

Hypena subidalis, *Guen. Delt. et Pyral.* 32, 27.
Brazil.

36. Hypena securalis.

Var. ? *Fusca, nigro conspersa ; alæ anticæ purpurascente tinctæ lineis interiore et exteriore testaceis indistinctis subundulatis postice approximatis, submarginali e guttis nigris, strigis duabus subapicalibus cyanescentibus, lunulis marginalibus nigris albo punctatis ; orbiculari et reniformi nigris ; posticæ cinereo-fuscæ.*

Hypena securalis, *Guen. Delt. et Pyral.* 35, 34.
Brazil.

Var. ? Brown, speckled with black. Palpi a little shorter than the thorax ; second joint broadly tufted ; third lanceolate, about one fourth of the length of the second, with which it forms a slight angle. Abdomen brownish cinereous, very slightly crested towards the base. Fore wings very slightly subfalcate, with a purplish tinge ; interior and exterior lines testaceous, indistinct, slightly undulating, much nearer each other on the interior border than on the costa ; submarginal line forming some black dots, of which the two in front are pointed with white and interrupt two bluish streaks ; costa with whitish subapical points ; marginal lunules black, accompanied by white points ; orbicular and reniform marks black. Hind wings cinereous-brown ; discal mark beneath dark brown. Length of the body 5½ lines ; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

37. Hypena? comptulalis.

Fœm. *Nigro-fusca ; palporum articulus 3us albidus ; alæ anticæ trigonæ velutinæ vix acutæ non falcatæ, linea costali flavescente, linea submarginali alba, spatio marginali fusco-albida, denticulis marginalibus ; posticæ cinereæ, apud marginem interiorem nigricantes, subtus albido variæ.*

Hypena? comptulalis, *Guen. Delt. et Pyral.* 36, 35.
Brazil?

38. Hypena mactatalis.

Mas. *Fuscescente-cinerea; palpi rufescente-ferruginei, validi, subfasciculati, non ascendentes, thorace vix breviores, articulo 3o brevi lanceolato; abdomen non cristatum; alæ anticæ non falcatæ, linea interiore albida angulata, exteriore et submarginali nigris indistinctis, hac guttulari, striga costali lata albida; posticæ lituris nullis.*

Male. Brownish cinereous. Palpi reddish ferruginous, stout, slightly tufted, not ascending, nearly as long as the thorax; third joint lanceolate, full one-fourth of the length of the second, with which it forms a well-marked angle. Abdomen cinereous, not crested. Fore wings acutely rectangular at the tips, not falcate; interior line whitish, angular; exterior and submarginal lines black, indistinct, the latter composed of dots; a broad whitish costal streak extending to the tip of the wing. Hind wings without markings. Length of the body 6 lines; of the wings 14 lines.

a, b. Venezuela. From Mr. Dyson's collection.

Group 3.

39. Hypena minualis.

Mas. *Cinerea, fusco et nigricante varia; alæ anticæ linea exteriore flavo-fusca angulosa extus antice albo marginata, fasciculo discali nigro squamoso, linea submarginali indistincta, macula apicali cinerea, lituris tribus costalibus albis; posticæ nigricantes.*

Hypena minualis, *Guen. Delt. et Pyral.* 36, 36.

Brazil.

40. Hypena pacificalis.

Mas. *Ferrugineo-fusca; palpi thorace vix breviores, articulo 2o latiusculo, 3o brevi securiformi apice acuto; abdomen subcristatum; alæ anticæ acutæ, non subfalcatæ, margine exteriore recto, lineis tribus obscure fuscis denticulatis albido marginatis, linea marginali obscure fusca, orbiculari atra punctiformi, reniformi nigricante indistincta.*

Male. Ferruginous-brown, somewhat cinereous beneath. Palpi hardly as long as the thorax; second joint rather broad; third short, securiform, terminating in a point. Abdomen slightly crested.

Fore wings acute, not subfalcate; exterior border straight; the three usual lines dark brown, slight, denticulated, whitish along their outer sides; submarginal line more denticulated than the others; marginal festoon dark brown, like that of the hind wings; orbicular mark deep black, punctiform; reniform blackish, indistinct. Length of the body 5 lines; of the wings 12 lines.

a. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

41. HYPENA EXCEPTALIS.

Fœm. *Ferrugineo-fusca; palpi ascendentes, thorace breviores; tibiæ anticæ sat validæ; alæ linea subtus exteriore indistincta obscure fusca; anticæ lineis tribus undulatis obscure fuscis, interiore indistincta, exteriore albido marginata, submarginali e punctis albidis, punctis marginalibus albidis; posticæ fimbria interlineata.*

Female. Ferruginous-brown, a little paler, and with a slight cinereous tinge beneath, where the wings have a common indistinct dark brown exterior line. Palpi shorter than the thorax, more ascending than in most species. Fore tibiæ rather stout. Fore wings with three dark brown undulating lines; the interior one indistinct; the exterior one with a whitish outer border; the submarginal one almost obsolete, but distinguished by whitish points; marginal line dark brown, with whitish points. Hind wings with a dark brown marginal line; fringe interlined. Length of the body 6 lines; of the wings 14 lines.

a. Ega. From Mr. Bates' collection.
b. Venezuela. From Mr. Dyson's collection.

42. HYPENA PORRECTALIS.

Var.? Fœm. *Cervina, subtus fuscescente-cinerea; palpi obscure fusci, thorace non breviores, articulo 3o cinereo; alæ anticæ lineis quatuor undulatis obliquis nigricantibus, linea submarginali albido interlineata, punctis marginalibus nigricantibus; posticæ nigricante-cinereæ, margine exteriore subflexo.*

Hypena porrectalis, *Guen. Delt. et Pyral.* 37, 37.

Var.? Female. Fawn-colour, brownish cinereous beneath. Palpi dark brown, as long as the thorax; third joint cinereous. Abdomen brownish cinereous. Fore wings with four undulating oblique blackish lines; the fourth or submarginal one interlined with

whitish; marginal points blackish. Hind wings blackish cinereous; exterior border slightly bent; fringe cinereous; under side with traces of lines somewhat like those of the fore wings. Length of the body 5 lines; of the wings 14 lines.

a, *b*. Ega. From Mr. Bates' collection.
c. Venezuela. From Mr. Dyson's collection.

43. Hypena crambalis.

Mas. *Violaceo-cinerascens, lineis undulatis pallide fuscis, exteriore et submarginali indistinctis, margine exteriore nigricante nebuloso, orbiculari punctiformi, apice pallido, puncto nigro; posticæ lituris nullis.*

Hypena crambalis, *Guen. Delt. et Pyral.* 37, 38.

Cayenne.

Group 4.

44. Hypena latalis.

Mas. Nigricante-cinerea; palpi breves, articulo 3o parvo securiformi apice attenuato; alæ anticæ acutæ amplæ non falcatæ violaceo nitentes nigro squamosæ, lineis duabus obscuris subelevatis, 2a subflexa, linea marginali obscura albo punctata; posticæ lituris nullis.

Hypena latalis, *Guen. Delt. et Pyral.* 39, 44.

Colombia.

Group 5.

45. Hypena internalis.

Fœm. *Nigro-fusca; alæ latæ, breves; anticæ acutæ subfalcatæ violaceo-cinereo tinctæ, lineis interiore et exteriore approximatis sinuatis parallelis, spatio intermedio saturatiore, macula postica magna semilunata testaceo-flava; posticæ lituris nullis.*

Hypena? internalis, *Guen. Delt. et Pyral.* 41, 47.

Brazil.

46. Hypena abscondalis.

Mas. *Ferrugineo-fusca; alæ latiusculæ; anticæ vix falcatæ, spatio exteriore obscure cinereo-fusco subpurpurascente, linea exteriore nigricante flexa valde obliqua, submarginali e guttis nigricantibus, lunulis marginalibus nigris; posticæ cinereæ.*

Male. Ferruginous-brown, cinereous beneath. Abdomen cinereous. Wings rather broad. Fore wings hardly falcate, minutely speckled with black, dark cinereous-brown, with a slight purplish tinge beyond the exterior line, which is blackish, very oblique, much bent opposite the areolet, nearly upright from thence to the costa; space between the bend and the tip of the wing ferruginous-brown; submarginal line composed of blackish dots; marginal lunules black; reniform mark of the usual form. Hind wings cinereous. Length of the body 5 lines; of the wings 13 lines.

a. Venezuela. From Mr. Dyson's collection.

47. Hypena obditalis.

Mas. *Fuscescente-cinerea; palpi validi, porrecti, pilosi, thorace vix breviores; alæ vix latæ; anticæ subfalcatæ, linea interiore subobsoleta, exteriore recta obliqua tenui albida intus ferrugineo marginata antice arcuata, submarginali e punctis albis et nigricantibus, lunulis marginalibus albis nigro punctatis, orbiculari e gutta parva nigra.*

Male. Brownish cinereous. Palpi stout, porrect, pilose, almost as long as the thorax; third joint hardly more than one-fourth of the length of the second, with which it forms an angle. Wings hardly broad. Fore wings subfalcate; interior line almost obsolete; exterior line straight, oblique, slender, whitish, bordered with ferruginous on the inner side, much curved inward as it approaches the costa; submarginal line indicated by white and blackish points; marginal lunules white, with black points; orbicular mark forming a minute black dot. Hind wings with a brown marginal line. Length of the body 4 lines; of the wings 10 lines.

a, b. Honduras. From Mr. Dyson's collection.

Group 6.

48. Hypena abscisalis.

Mas. *Ferrugineo-fusca; palpi porrecti, fasciculati, viridi-nigricantes, thorace breviores, articulo 3o lanceolato brevi apicem versus albido; abdomen non cristatum; alæ anticæ sat angustæ, vix falcatæ, subpurpurascentes, lineis fuscis obliquis, interiore et submarginali subundulatis, exteriore recta costam versus angulata, lunulis marginalibus fuscis albo punctatis, orbiculari e puncto nigro, fimbria interiore interlineata; posticæ lituris nullis.*

Male. Ferruginous-brown, brownish cinereous beneath. Palpi horizontal, moderately tufted, blackish with metallic-green lustre, shorter than the thorax; third joint lanceolate, whitish towards the tip, less than one-fourth of the length of the second, with which it forms a slight angle. Abdomen not crested. Fore wings rather narrow, very slightly subfalcate, with a purplish tinge; lines brown, oblique; interior and submarginal lines slightly undulating; exterior line straight, forming an angle near the costa; marginal lunules brown, pointed with white; orbicular mark represented by a black point on the interior line; fringe doubly interlined. Hind wings without markings; fringe like that of the fore wings, but edged with cinereous. Length of the body 4 lines; of the wings 11 lines.

a. Pará. From Mr. Bates' collection.

Group 7.

49. Hypena jactatalis.

Mas. *Fusca; palpi porrecti, nigricantes, supra cinerei, thorace non breviores, articulo 3o lanceolato brevi apice albido; antennæ setis longiusculis; abdomen non cristatum; alæ longæ; anticæ subfalcatæ cinereo-fuscæ subpurpurascentes, dimidio fere basali fusco, orbiculari e gutta flava, linea interiore obscure fusca, exteriore et submarginali denticulatis obliquis obscure fuscis albo ex parte submarginatis, plaga apicali lata obliqua fusca; posticæ cinereæ.*

Male. Brown, cinereous beneath. Palpi blackish, horizontal, tufted and cinereous above, as long as the thorax; third joint lanceolate, whitish at the tip, less than one-fourth of the length of the second, with which it forms a distinct angle. Antennæ with rather long bristles. Abdomen brownish cinereous, not crested. Wings

long, moderately broad. Fore wings subfalcate, cinereous-brown, with a purplish tinge; costa very slightly convex; rather less than the basal half brown, with an oblique outline, including a yellow dot which represents the orbicular mark, and an interior line, which is dark brown and very indistinct; exterior and submarginal lines dark brown, denticulated, oblique, irregular, indistinct, partly and slightly bordered with white, appearing also on the hind wings, which are cinereous; a broad oblique apical brown patch terminating the submarginal line. Length of the body 6 lines; of the wings 16 lines.

a. Venezuela. From Mr. Dyson's collection.

Group 8.

50. HYPENA OBAGITALIS.

Mas. Testacea, nigro fuscoque conspersa; palpi porrecti, late fasciculati, thorace paullo breviores, articulo 3o lanceolato 2i triente non longiore; abdomen non cristatum; alæ sat angustæ, fimbria lata; anticæ non falcatæ, linea submarginali pallida denticulata valde indistincta, lunulis marginalibus atris; posticæ obscure cinereæ, lunulis marginalibus nigricantibus.

Male. Testaceous, speckled with black and brown, partly cinereous beneath. Palpi horizontal, broadly tufted above, a little shorter that the thorax; third joint lanceolate, about one-third of the length of the second, with which it does not form an angle. Abdomen very thickly speckled, except towards the base, not crested. Wings rather narrow; fringe broad, mostly cinereous. Fore wings acutely rectangular at the tips, not subfalcate; lines obsolete, except the submarginal one, which is pale, denticulated and very indistinct; marginal lunules deep black. Hind wings dark cinereous; marginal lunules blackish. Length of the body 3½ lines; of the wings 9 lines.

a. Ega. From Mr. Bates' collection.

Group 9.

51. HYPENA ILLAPSALIS.

Mas. *Ochracea; palpi rufi, porrecti, subtus pallidi, thorace non breviores, articulo 3o brevi apice truncato piloso subtus nigricante; alæ longiusculæ; anticæ subquadratæ vix falcatæ, lineis interiore et exteriore albidis, hac angulata subobliqua, illa subundulata; posticæ luteæ, rufescente marginatæ.* Var. β. *—Alæ anticæ litura reniformi nigricante.*

Male. Ochraceous, paler beneath. Palpi red, porrect, pale and moderately pilose beneath, as long as the thorax; third joint truncate, pilose at the tip, blackish beneath, about one-fourth of the length of the second, with which it does not form an angle. Antennæ simple. Abdomen luteous. Wings rather long. Fore wings hardly falcate; exterior border hardly oblique till towards the interior angle; interior and exterior lines whitish, the former upright and slightly undulating, the latter slightly oblique and forming an obtuse angle near the costa; the other marks quite obsolete. Hind wings luteous, with reddish borders. *Var.* β.—Reniform mark forming a blackish spot. Length of the body 5—6½ lines; of the wings 13—16 lines.

a, *b*. Parà. Presented by J. P. G. Smith, Esq.

Group ?

52. HYPENA? RUSTICALIS.

Mas. *Fusca; alæ cinereæ, anticæ fasciis tribus rufescentibus; posticæ basi pallidiores.*

Hypena rusticalis, (Pyralis geometriformis, Herpyzon rectipalpis), *Hübn. Samml. Exot. Schmett.* ii. 30, 188, f. 375, 376.

Surinam.

Africa.

A. Abdomen longum.
  A. Alæ anticæ acutæ. - - - - derasalis, *Guen.*
  B. Alæ anticæ rotundatæ. - - - namaqualis, *Guen.*
B. Abdomen non longum.
  A. Alæ non angustæ.
    a. Palpi non breves. - - - - jussalis, *Walk.*
    b. Palpi breves. - - - - Abyssinialis, *Guen.*
  B. Alæ angustæ. - - - - - obacerralis, *Walk.*

The first group is distinguished by its long abdomen, and by its narrow and somewhat rounded fore wings; the second belongs to the first European group; the third to the third European group; the fourth to the fourth North American group; the fifth is distinguished by the narrow fore wings, and by the palpi, of which the third joint is longer in the female than in the male.

Group 1.

53. Hypena derasalis.

Mas et fœm. *Pulveroso-cinerea; palpi longi, articulo 2o longitrigono, 3o lato securiformi; antennæ subpubescentes; alæ anticæ angustæ, oblongæ, acutæ, nigricante conspersæ, margine exteriore flexo, macula marginali fusca postice vaga, lineis interiore et exteriore postice approximatis, orbiculari e fasciculo squamoso nigro; posticæ nigricante-cinereæ, fimbria pallida.*

Hypena derasalis, *Guen. Delt. et Pyral.* 27, 16.

Cape.

54. Hypena namaqualis.

Mas. *Nigro-fusca; palpi ascendentes, articulo 3o fasciculato; antennæ validæ; abdomen longum, cinereo-fuscum; alæ anticæ cervino variæ, apice subrotundatæ, sat parvæ, lineis interiore et exteriore undulatis postice approximatis, linea submarginali e guttis nigris pallido marginatis; posticæ fuscæ, fimbria pallida.*

Hypena namaqualis, *Guen. Delt. et Pyral.* 28, 17.

a. South Africa. Presented by Dr. A. Smith.

Group 2.

55. Hypena senialis.

Mas. H. obsitali *affinis; alæ anticæ fascia ochraceo-cinerea bene determinata lineolam fuscam includente, triangulo magno interiore flavescente-cinereo extus nigro-fusco, spatio apicali ochraceo-flavo, linea submarginali e punctis nigris flavescente notatis, punctis duobus discalibus, uno nigro, altero pallide flavo.*

Hypena senialis, *Guen. Delt. et Pyral.* 30, 28.

Central Africa.

Group 3.

56. Hypena jussalis.

Mas. *Fusca, cinereo conspersa; palpi porrecti, fasciculati, thorace non breviores, articulo 3o lanceolato brevi apice albo; abdomen subcristatum; alæ fimbria interlineata; anticæ*

subfalcatæ lineis interiore et exteriore fuscis pallido marginatis, hac subundulata subdenticulata, illa recta obliqua, plagis duabus exterioribus albidis, striga apicali undulata alba, lunulis marginalibus albido marginatis, orbiculari e gutta nigra.

Male. Brown, speckled with cinereous. Palpi porrect, moderately tufted, as long as the thorax; third joint lanceolate, white at the tip, forming an angle with the second and a little more than one-fourth of its length. Abdomen and hind wings cinereous-brown, the former slightly crested. Wings with the fringe doubly interlined. Fore wings subfalcate; interior and exterior lines brown, pale-bordered, converging hindward and united at a short distance from the interior border, the former straight and oblique, the latter slightly undulating and denticulated; a whitish elongated patch along the hind part of the exterior line, and a smaller one along its fore part; a white undulating apical streak; marginal lunules with whitish borders; orbicular mark indicated by a black dot. Hind wings with a brown marginal line. Length of the body 4½ lines; of the wings 11 lines.

a. Congo. Presented by Sir J. Richardson.

Group 4.

57. HYPENA ABYSSINIALIS.

Mas et fœm. *Nigricante-cinerea; palpi incumbentes, breves, articulo 3o brevissimo securiformi; alæ lutæ; anticæ trigonæ, subdenticulatæ, acutæ, non falcatæ, lineis interiore et exteriore fuscis indistinctis subtrementibus subarcuatis, submarginali pallidiore vaga tremente, macula apicali obliqua albo conspersa, linea marginali tenui alba, punctis duobus discalibus nigris; posticæ nigræ.*

Hypena Abyssinialis, *Guen. Delt. et Pyral.* 39, 44.

Abyssinia.

Group 5.

58. HYPENA OBACERALIS.

Mas et fœm. *Cinerea; palpi fusci, porrecti, subpilosi, thorace non breviores; alæ anticæ angustæ, subglaucescentes, vix falcatæ, linea interiore abbreviata, exteriore cervina recta valde obliqua pallido extus marginata, submarginali e nebula nonnunquam obsoleta fuscescente punctisque nigris; fimbria interlineata; posticæ obscure cinereæ.*

Male and female. Cinereous. Palpi brown, porrect, slightly pilose, as long as the thorax; third joint forming an angle with the second, of which it is about one-fourth of the length in the female, but much shorter in the male. Abdomen not crested. Fore wings narrow, hardly falcate, with a slight glaucous tinge; interior line obsolete, except towards the interior border, where it is parallel to the exterior line; the latter is fawn-colour, straight, very oblique, with a pale outer border; submarginal line indicated by a brownish sometimes obsolete shade, which contains some black points; marginal line fawn-colour; fringe interlined. Hind wings dark cinereous, with a broad paler fringe. Length of the body 3—4½ lines; of the wings 8—11 lines.

a. Congo. Presented by Sir J. Richardson.
b—i. Ceylon. From Mr. Stevens' collection.

Asia.

A. Alæ anticæ non lanceolatæ.
A. Alæ anticæ non cervinæ.
a. Alæ anticæ linea nulla recta perobliqua.
a. Alæ anticæ non angustæ.
i. Statura gracilis. - - - indicalis, *Guen.*
ii. Statura robusta.
* Alæ anticæ plagiatæ.
† Alæ anticæ purpureo non fasciatæ.
‡ Alæ anticæ ferrugineæ. rhombalis, *Guen.*
‡‡ Alæ anticæ cinereæ. - laceratalis, *Guen.*
†† Alæ anticæ purpureo fasciatæ. jugalis, *Walk.*
** Alæ anticæ non plagiatæ.
† Alæ anticæ linea recta pallida.
‡ Alæ anticæ linea duplicata. jocosalis, *Walk.*
‡‡ Alæ anticæ linea non duplicata.
§ Alæ anticæ striga nulla apicali. iconicalis, *Walk.*
§§ Alæ anticæ striga apicali. læsalis, *Walk.*
†† Alæ anticæ linea undulata pallida.
‡ Statura sat magna.
§ Alæ anticæ lineis tribus albis. lacessalis, *Walk.*
§§ Alæ anticæ linea una pallida.
+ Alæ anticæ extus pallidiores.

+ Palpi non breves.
obductalis, *Walk.*
++ Palpi breves.
indicatalis, *Walk.*
++ Alæ anticæ non extus pallidiores.
narratalis, *Walk.*
‡‡ Statura minor.
§ Alæ anticæ extus pallidiores.
mandatalis, *Walk.*
§§ Alæ anticæ extus non pallidiores.
+ Alæ anticæ linea exteriore non obliqua. - quæsitalis, *Walk.*
++ Alæ anticæ linea exteriore obliqua. - ignotalis, *Walk.*
††† Alæ anticæ linea nulla pallida.
abjectalis, *Walk.*
b. Alæ anticæ angustæ. - - - labatalis, *Walk.*
B. Alæ anticæ linea recta perobliqua.
a. Statura sat magna. - - - abducalis, *Walk.*
b. Statura parva. - - - - - pactalis, *Walk.*
B. Alæ anticæ cervinæ. - - - - - raralis, *Walk.*
B. Alæ anticæ lanceolatæ. - - - paritalis, *Walk.*

Seven groups, of which the first is like the second European group; the second like the third European group, but with more distinct characters and more resembling some of the *Noctuites;* in the third the palpi are long and nearly erect, and the submarginal line of the fore wings is very distinct and regular; the fourth has porrect and very long palpi, and the exterior line of the fore wings is continued regularly on the hind wings; the fifth is distinguished by its long narrow fore wings, which are especially acute in the male; the sixth has long slender palpi and antennæ; the seventh is distinguished by the narrow fore wings and by the palpi, of which the third joint is longer in the female than in the male.

Group 1.

59. HYPENA INDICALIS.

Mas. H. proboscidali *simillima; abdomen brevius; alæ anticæ magis acutæ, violaceo subtinctæ, lineis tenuioribus, reniformi e striga nigra, orbiculari punctiformi.*

Hypena indicalis, *Guen. Delt. et Pyral.* 31, 25.

Hindostan.

Group 2.

60. Hypena rhombalis.

Ferruginea, subtus cinerascens, lunula discali bene determinata; abdomen æneo-fuscum, cristis tribus distinctis; alæ anticæ pluga maxima nigricante subtrigona albido marginata extus in dentem obtusum producta, striga apicali atra, linea submarginali e punctis nigris pallido marginatis; posticæ æneo-fuscæ, linea subtus conspicua.

Hypena rhomboidalis, *Guen. Delt. et Pyral.* 33, 29.

a. Ceylon. Presented by R. Templeton, Esq.

61. Hypena obductalis.

Fœm. *Ferrugineo-fusca; palpi subascendentes, subpilosi, vix arcuati; articulus 3us 2i dimidio brevior; abdomen cristatum; alæ anticæ æneo subtinctæ, non falcatæ, linea exteriore angulata subundulata pallide cinerea, submarginali e guttis fuscis albido notatis, striga apicali obliqua obscure fusca, lunulis marginalibus fuscis; posticæ cinereo-fuscæ.*

Female. Ferruginous-brown. Palpi slightly ascending, hardly curved, with short hairs; third joint pale at the tip, a little less than half the length of the second. Abdomen cinereous-brown, with three distinct crests towards the base. Wings with a slight æneous tinge. Fore wings rectangular at the tips, not falcate, paler between the exterior border and the exterior line, which is pale cinereous, slightly undulating, and forms a prominent angle in the middle; submarginal line distinguished by brown whitish-marked dots; an irregular oblique dark brown apical streak; marginal lunules brown. Hind wings cinereous-brown; marginal line brown; under side with the exterior line distinct, like that of the fore wings. Length of the body 8 lines; of the wings 16 lines.

This species is rather different from the usual form of *Hypena*, especially in the structure of the palpi.

Hindostan. In Mr. Saunders' collection.

62. Hypena narratalis.

Mas. *Fusca; palpi validi, oblique ascendentes, dense pilosi; abdomen crista basali ferruginea; alæ anticæ amplæ, nigro variæ, vix falcatæ, lineis pallidis indistinctis nigro ex parte marginatis, interiore subobsoleta, exteriore subundulata, submarginali interrupta; posticæ cinereo-fuscæ, fascia subtus indistincta discali fusca.*

Male. Brown. Palpi short, obliquely ascending, thickly pilose; third joint lanceolate, less than one-third of the length of the second. Antennæ minutely pubescent. Abdomen cinereous-brown, with a ferruginous crest at the base. Joints of the tarsi with pale cinereous tips. Fore wings ample, minutely mottled with black, hardly falcate; lines pale, indistinct, partly bordered with black; interior line almost obsolete; exterior line slightly undulating; submarginal line interrupted; some pale marks along the exterior part of the costa. Hind wings cinereous-brown, with an indistinct brown discal band on the under side. Length of the body 7 lines; of the wings 19 lines.

a. North Hindostan. From Capt. Reid's collection.

63. Hypena jocosalis.

Fœm. *Cinereo-fusca; palpi squamosi, thorace breviores; articulus 3us nudus, apice pallidus, 2i dimidio brevior; abdomen suberistatum; pedes sat validi; alæ anticæ subfalcatæ, apud discum nigricante-fuscæ cano marginatæ, fascia exteriore obliqua interlineata subarcuata cana, striga albida maculisque duabus nigris albo marginatis apicalibus, linea interiore pallida denticulata, orbiculari e gutta nigra.*

Female. Cinereous-brown. Palpi rather shorter than the thorax; second joint with short squamous hairs; third bare, pale and acuminated at the tip, a little less than half the length of the second. Abdomen cinereous, very slightly crested towards the base. Legs rather stout. Wings with a brown marginal line. Fore wings slightly subfalcate; disk mostly blackish brown, with its borders partly and diffusedly hoary, and its outer part interrupted by an oblique interlined very slightly curved hoary band; a whitish apical streak contiguous to two black white-bordered spots; interior line pale, much denticulated; orbicular mark forming a black dot. Length of the body 5 lines; of the wings 20 lines.

a. Ceylon. Presented by R. Templeton, Esq.

64. Hypena mandatalis.

Fœm. *Fusca; palpi breviusculi, oblique ascendentes, dense pilosi, vix arcuati; antennæ validæ; abdomen fasciculatum; pedes validi, ciliati; alæ anticæ non falcatæ, dimidio basali obscure fusco subpurpurascente, linea exteriore undulata biangulata albido extus marginata, interiore costam versus angulata, spatio intermedio viridescente, striga exteriore subcostali lata nigricante, linea submarginali e punctis nigris, orbiculari et reniformi nigris, hac incompleta, illa punctiformi.*

Female. Brown. Palpi obliquely ascending, thickly pilose, very slightly curved, much shorter than the thorax; the tuft truncated near the tip of the third joint, which is pale. Antennæ stout. Abdomen brownish cinereous, with very distinct tufts. Legs stout, somewhat fringed. Fore wings rectangular at the tips, not falcate, dark brown, and with a purple tinge on the basal half, which is bounded by the exterior line; the latter is undulating, with a whitish outer border, and forms two angles; interior line angular in front; an emerald-green tinge hindward between it and the exterior line, which has a broad blackish subcostal streak between it and the exterior border; submarginal line indicated by some black points; marginal points black; orbicular and reniform marks black, the former punctiform, the latter incomplete. Hind wings brown. Length of the body 5 lines; of the wings 11 lines.

It is nearly allied to *H. rhombalis*, but in its stout form and ascending palpi differs still more than that species from the typical *Hypenæ*.

a. Ceylon. Presented by R. Templeton, Esq.
b. Ceylon. From Mr. Stevens' collection.

65. Hypena quæsitalis.

Mas. *Ferrugineo-fusca; palpi fasciculati, oblique ascendentes, articulo 3o lanceolato apicem versus nudo albido 2i triente non breviore; thorax cinereo conspersus, fascia antica obscure fusca; abdomen cristis nigricantibus; tarsi albido cincti; alæ anticæ vix falcatæ, basi viridi conspersæ, extus purpureo tinctæ, lineis interiore et exteriore albidis nigricante-fusco marginatis postice connexis, hac subundulata, illa recta obliqua, submarginali pallida denticulata, gutta basali et orbiculari guttulari nigris, reniformi cinereu nigro ex parte marginata; posticæ cinereo-fuscæ, striga parva marginali alba.*

Male. Ferruginous-brown, cinereous beneath. Palpi obliquely ascending, tufted; third joint lanceolate, whitish and bare towards the tip, full one third of the length of the second, with which it forms a slight angle. Thorax speckled with cinereous; a dark brown band in front, and a slight metallic blue tinge on each side. Abdomen with four stout blackish crests. Tarsi with whitish rings. Wings moderately broad. Fore wings acutely rectangular, hardly subfalcate, speckled with metallic green towards the base, and with a purplish tinge along the outer side of the exterior line; interior and exterior lines whitish, bordered with blackish brown, united towards the interior border, the former straight and oblique, the latter slightly undulating; submarginal line pale, denticulated, very indistinct, except towards the costa, where it forms two acute white angles, and has in front of it five costal white points; a black dot by the base, and another representing the orbicular mark; reniform cinereous, partly bordered with black. Hind wings cinereous-brown, with a little white streak on the exterior border, whitish cinereous beneath, where there is a brown discal mark and a brown outer line. Length of the body 5 lines; of the wings 11½ lines.

a. Ceylon. Presented by R. Templeton, Esq.

66. HYPENA LACESSALIS.

Mas. *Nigricante-ferruginea; palpi arcuati, ascendentes, caput superantes; articulus 3us lanceolatus, 2i dimidio longior; abdomen subcristatum; alæ longiusculæ; anticæ subfalcatæ, lineis pallide purpurascente-cyaneis, interiore undulata, exteriore angulata, submarginali e lituris cuneatis; posticæ fuscescente-cinereæ.*

Male. Blackish ferruginous, brownish cinereous beneath, with a blackish discal mark on each wing. Palpi curved, vertical, ascending considerably above the head; third joint lanceolate, whitish at the tip, more than half the length of the second. Abdomen dark cinereous, slightly crested. Wings rather long. Fore wings subfalcate, irregularly speckled with pale purplish blue, and with the three usual lines and the marginal points of the same hue; interior line undulating; exterior line forming an outward angle; submarginal line composed of cuneiform marks; under side with a white subapical mark. Hind wings brownish cinereous. Length of the body 6 lines; of the wings 15 lines.

a. North Hindostan. Presented by Capt. Parry.

67. Hypena ignotalis.

Mas. *Cinereo-fusca; palpi porrecti, late fasciculati, thorace breviores, articulo 3o lanceolato brevi apice albido; alæ anticæ subfalcatæ, lineis interiore et exteriore fuscis undulatis denticulatis pallido marginatis postice approximatis, submarginali valde denticulata, lunulis marginalibus obscure fuscis, orbiculari e gutta nigra.*

Male. Cinereous-brown. Palpi porrect, shorter than the thorax, broadly tufted; third joint lanceolate, whitish at the tip, forming a distinct angle with the second, of which it is not more than one-fourth the length. Fore wings subfalcate, with the interior and exterior lines brown, pale bordered, undulating, denticulated, remote on the costa, but converging much towards the interior border; submarginal line much denticulated, terminated towards the costa by a whitish black-lined streak; marginal lunules dark brown; orbicular mark represented by a black dot. Hind wings with a brown marginal line. Length of the body 5 lines; of the wings 12 lines.

a. North Hindostan. From Mr. Stevens' collection.

68. Hypena laceratalis.

Fœm. *Cinereo-fusca*, H. ignotali *simillima; palpi porrecti, validi, pilosi, thorace non breviores; abdomen cinereum, cristis fuscis; alæ anticæ cinereæ, nigro conspersæ, sat angustæ, non falcatæ, ferrugineo-fusco ex parte nebulosæ, linea interiore indistincta, exteriore subundulata, striga obliqua albida, lunulis marginalibus nigris albo marginatis, fimbria interlineata.*

Female. Closely allied to *H. ignotalis*, from which it differs in the form of the exterior line and in several markings on the fore wings. Cinereous-brown. Palpi porrect, stout, pilose, as long as the thorax; third joint whitish at the tip, forming a distinct angle with the second, of which it is not more than one-fourth of the length. Abdomen cinereous, with brown crests. Fore wings cinereous, rather narrow, not falcate, speckled with black, partly shaded with ferruginous-brown, which is most prevalent between the interior and exterior lines; interior line indistinct; exterior line slightly undulating, traversed by an oblique whitish streak which partly accompanies the interior line; two or three black white-bordered subapical streaks behind the whitish costal points; marginal lunules black, bordered with white; fringe interlined like that of the hind wings, which have

a dark brown marginal line. Length of the body 4½—5 lines; of the wings 11—12 lines.

a. Hindostan. From Mr. Milne's collection.
b, *c*, Ceylon. From Mr. Stevens' collection.

69. Hypena indicatalis.

Fœm. *Ferrugineo-fusca; palpi breviusculi; alæ anticæ dimidio basali obscuriore subchalybeo, linea media undulata testacea bene determinata nigro marginata, linea interiore testacea angulosa indistincta, linea submarginali diffusa indistincta, strigis duabus subapicalibus nigris lanceolatis albido marginatis, orbiculari nigra punctiformi, linea marginali fusca, fimbria interlineata, puncto subtus albo subapicali.*

Female. Ferruginous-brown, cinereous-brown beneath, where there is a white point near the tip of each fore wing. Palpi rather shorter than in most species. Abdomen and hind wings brownish cinereous. Fore wings darkest and with a chalybeous tinge on the basal half, which space is bounded by a well-defined undulating testaceous line; the latter is bordered with black on its inner side; exterior part rather paler and containing two black lanceolate subapical whitish bordered streaks; submarginal line diffuse, irregular, indistinct; interior line testaceous, angulose, indistinct; orbicular mark black, punctiform; marginal festoon brown; fringe interlined, like that of the hind wings. Length of the body 4 lines; of the wings 11 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

70. Hypena iconicalis.

Fœm. *Ferrugineo-fusca, robusta; palpi validi, porrecti, articulo 2o subarcuato; abdomen cristis ferrugineis; alæ anticæ breviusculæ, latiusculæ, ex parte opalinæ, nigro conspersæ, non falcatæ, linea interiore abbreviata, exteriore nigricante recta subobliqua, submarginali subundulata e guttis nigricantibus albo notatis, orbiculari nigra tumida punctiformi albo notata, guttis duabus subtus subapicalibus nigris albo notatis; posticæ cinereo-fuscæ.*

Var. β. *Pallidior, linea exteriore ferruginea.* Mus.? — *Palpi breviores; antennæ longiores; alæ anticæ cinereæ, fusco nebulosæ; posticæ litura diffusa marginali fusca.*

Female. Ferruginous-brown, stout. Palpi stout, porrect, moderately pilose; second joint very slightly curved; third whitish at the tip, hardly forming an angle with the second, of which it is about one-fourth of the length. Abdomen with slight ferruginous crests. Fore wings rather short and broad, partly with an opaline hue, not falcate, minutely speckled with black; interior line obsolete, except towards the costa; exterior line hardly beyond the middle, blackish, straight, slightly oblique; submarginal line slightly undulating, composed of black dots which are marked with white; orbicular mark black, raised, punctiform, marked with white; marginal line brown; under side with two black white-marked subapical dots. Hind wings cinereous-brown. Length of the body 4½ lines; of the wings 11½ lines.

a. Ceylon. From Mr. Stevens' collection.

Var. β. Paler. Exterior line ferruginous.

b, c. Ceylon. Presented by R. Templeton, Esq.

Male? Much like *var.* β. Palpi shorter than in the female. Antennæ longer and stouter. Abdomen crested. Fore wings cinereous, partly shaded with brown. Hind wings with a diffuse brown mark on the exterior border and on the adjoining part of the fringe.

d. Java. From the East India Company's collection.

71. Hypena læsalis.

Fuscescente-cinerea; alæ latiusculæ; anticæ vix falcatæ, spatio interiore iridescente, linea exteriore albida recta vix obliqua fusco marginata subdenticulata, interiore fusca undulata indistincta, striga apicali pallida lata obliqua postice attenuata et furcata, lunulis marginalibus nigris albo marginatis, fimbria interlineata

Brownish cinereous. Wings rather broad. Fore wings hardly falcate, with iridescent tints between the base and the exterior line, which is whitish, bordered with dark brown, straight, hardly oblique, indistinctly denticulated in the middle; interior line brown, undulating, indistinct; submarginal line pale, undulating, indistinct; a pale broad oblique apical streak, attenuated and forked hindward; costal subapical points white; marginal lunules black, bordered with white; fringe interlined like that of the hind wings; under

side with a white subapical dot. Length of the body 3 lines; of the wings 8 lines.

a. Hindostan. From Archdeacon Clerk's collection.

72. HYPENA JUGALIS.

Fœm. *Cinerea, robusta, fusco conspersa; palpi validi, porrecti, pilosissimi, thorace vix breviores; alæ densæ; anticæ basi iridescentes, plaga magna subtrigona nigro-fusca, fascia exteriore purpurea, striga apicali pallida excavata plagam parvam nigro-fuscam trajiciente, lunulis marginalibus nigricantibus; posticæ subtus litura fasciaque fuscis.*

Female. Cinereous, stout, freckled with brown. Palpi stout, porrect, very pilose, hardly shorter than the thorax; third joint partly whitish, hardly one-third of the length of the second, with which it forms a distinct angle. Fore wings not falcate, iridescent towards the base, with a large somewhat triangular blackish brown patch, which is straight and oblique on the inner side, undulating on the outer side, where it is bounded by a purple band; the latter divides it from a smaller apical blackish brown patch, which is interrupted by a pale broad excavated streak; a whitish mark on each of the veins adjoining the marginal lunules, which are blackish; fringe interlined like that of the hind wings; the latter have an æneous tinge, and on the under side a discal brown mark and a brown band. Length of the body 5½ lines; of the wings 7 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

73. HYPENA ABJECTALIS.

Mas. *Ferrugineo-fusca; palpi porrecti, thorace vix breviores; antennæ longæ; abdomen attenuatum; pedes graciles; alæ non falcatæ, vitta lata informi nigricante, vitta posteriore abbreviata pallide smaragdina, linea exteriore undulata purpurascente ex parte marginata, maculis duabus subapicalibus albis, lunulis marginalibus nigris albo marginatis; posticæ fuscescente-cinereæ.*

Male. Ferruginous-brown, brownish cinereous beneath. Palpi porrect, moderately pilose, almost as long as the thorax; third joint

whitish at the tip, less than one-fourth of the length of the second, with which it forms an angle. Antennæ minutely setose, much more than half the length of the body. Abdomen extending a little beyond the hind wings, with two basal crests. Legs rather slender. Fore wings not falcate, with a broad irregular blackish discal stripe, and with a hindward pale emerald-green stripe, which extends from the base to the exterior line; the latter is undulating, and the space about it is partly purplish; two white subapical spots which also appear on the under side; marginal lunules black, with white borders. Hind wings brownish cinereous. Length of the body 5½ lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Group 3.

74. Hypena pactalis.

Fœm. *Pallide cinerea, fusco conspersa; palpi longi, subarcuati, suberecti, subfasciculati, articulo 3o lanceolato apicem versus nudo albido gracillimo 2i dimidio non breviore; abdomen basi subcristatum apice compressum; alæ fimbria lata interlineata; anticæ subfalcatæ subchalybeæ, lineis basali et interiore fuscescentibus obliquis, exteriore costam versus furcata, submarginali testacea recta obliqua valde determinata, linea contigua diffusa fusca; posticæ lituris nullis.*

Female. Pale cinereous, speckled with brown. Palpi long, slightly curved, nearly vertical, slightly tufted; third joint lanceolate, whitish, bare and very slender towards the tip, full half the length of the second, with which it forms a very slight angle. Abdomen compressed at the tip, very slightly crested at the base. Wings moderately broad; fringe broad, interlined. Fore wings slightly subfalcate, with a slight chalybeous tinge; exterior border slightly convex; basal and interior lines brownish, slight, oblique; exterior line forked in front; submarginal line testaceous, straight, oblique, very distinct, accompanied on its inner side by a diffuse brown line, which is darker and more concise at the tip of the wing. Hind wings without markings; fringe much paler than that of the fore wings. Length of the body 4 lines; of the wings 9 lines.

Male. Smaller than the female. Palpi porrect. Antennæ minutely pectinated with short hooked ciliæ. This species may form a new genus.

a. Ceylon. Presented by R. Templeton, Esq.
b. Ceylon. From Mr. Stevens' collection.

Group 4.

75. HYPENA RARALIS.

Mas. *Pallide rufescens; palpi porrecti, obscure fusci, thorace longiores; alæ fusco subconspersæ, linea exteriore recta obliqua fusca intus albido marginata, punctis marginalibus nigris; posticæ margine interiore subflexo.*

Male. Pale reddish. Palpi dark brown, quite porrect, much longer than the thorax. Wings very minutely speckled with brown, with a straight oblique exterior brown line, which is bordered with whitish on the inner side; marginal points black. Hind wings with the interior border slightly bent in the middle; its hind part oblique. Length of the body 6 lines; of the wings 15 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b. Ceylon. From the Rev. J. Wenham's collection.

Group 5.

76. HYPENA PARITALIS.

Fœm. *Ochraceo-cervina; fasciculus frontalis cinereus; palpi compressi, subdecumbentes, thorace longiores, articulo 3o brevi; abdomen fuscescente-cinereum, alas posticas paullo superans; alæ longæ, angustæ; anticæ subfalcatæ, conspersæ, margine exteriore subconvexo perobliquo, linea exteriore fusca recta obliqua, extus subalbida, submarginali e maculis nigris albo punctatis, gutta interiore discali fusca, reniformi e guttis duabus nigris albo punctatis, costa nigricante; posticæ obscure cinereæ.* Mas.—*Fuscescente-cervina; palpi recti, subascendentes; alæ anticæ angustiores, costa albida; posticæ apud marginem exteriorem subferrugineæ.*

Female. Ochraceous fawn-colour. Frontal tuft mostly cinereous. Palpi compressed, slightly curved downward, rather longer than the thorax, with some cinereous hairs; third joint about one-fourth of the length of the second. Abdomen brownish cinereous, extending a little beyond the hind wings. Wings long, narrow. Fore wings subfalcate, with darker speckles; exterior border slightly convex, very oblique; exterior line brown, straight, oblique, slightly whitish along its outer border; the other lines obsolete, except the

submarginal one, which is indicated by some black white-pointed spots; a brown interior discal dot; reniform mark indicated by two brown white-pointed dots; costa blackish; fringe yellow, with blackish marks. Hind wings dark cinereous; fringe like that of the fore wings, but less bright. *Male.*—Thorax and fore wings brownish fawn-colour. Palpi straight, slightly ascending. Fore wings narrower than those of the female; exterior border extremely oblique; costa whitish. Hind wings with a slight ferruginous tinge on the exterior border. Length of the body 7—8 lines; of the wings 16—17 lines.

This species recedes much from the typical form of *Hypena*, but hardly constitutes a distinct genus.

a, *b*. Ceylon. Presented by R. Templeton, Esq.

Group 6.

77. HYPENA LABATALIS.

Fœm. *Cinereo-fusca; palpi porrecti, subfasciculati, thorace longiores; antennæ longæ, gracillimæ; alæ sat angustæ; anticæ subfalcatæ, subpurpurascentes, nigro subconspersæ, posticæ pallidæ, striga apicali albida arcuata trifurcata, lineis indistinctis, lunulis marginalibus fuscis.*

Female. Cinereous-brown, pale cinereous beneath. Palpi horizontal, slightly tufted, much longer than the thorax; third joint lanceolate, slender, less than half the length of the second, with which it does not form an angle. Antennæ very slender, much more than half the length of the body. Abdomen not crested. Wings rather narrow. Fore wings subfalcate, slightly speckled with black and with a slight purplish tinge; space along the interior border pale, with an undulating outline; a whitish curved trifurcate apical streak; lines indistinct; marginal lunules brown. Hind wings without markings. Length of the body 4 lines; of the wings 11½ lines.

a. Ceylon. Presented by R. Templeton, Esq.

Group 7.

78. HYPENA ABDUCALIS.

Mas. *Cinerea; fasciculus frontalis longissimus; palpi porrecti, graciles, subtus basi albi; alæ longiusculæ; anticæ subfalcatæ, margine exteriore subconvexo, angulo interiore valde*

rotundato, linea arcuata flava, fascia anteriore fusca, linea adhuc anteriore pallida abbreviata, lineis exterioribus posterioribus nigricantibus, orbiculari nigra punctiformi, reniformi e punctis duobus nigris.

This species has some resemblance to the genus *Rhynchina.*

Male. Cinereous. Frontal tuft very long and acute. Palpi porrect, slender, white beneath towards the base, a little shorter than the thorax; second joint pilose above, cleft at the tip; third joint lanceolate, whitish towards the tip, pilose beneath, not more than one-fourth of the length of the second, with which it forms a slight angle. Antennæ pubescent, especially towards the base. Thorax squamous. Wings rather long. Fore wings subfalcate; exterior border slightly convex; interior angle much rounded; a yellow curved line extending from the tip of the wing nearly to the base; a brown band along the fore side of this line, bounded from the base to the areolet by another pale line; some blackish lines in the space between the first line and the exterior border; marginal line yellow; fringe interlined like that of the hind wings, which are darker towards the exterior border; orbicular mark black, punctiform; reniform represented by two black points. Length of the body 6 lines; of the wings 14 lines.

a. Punjaub. Presented by Gen. Hearsay.

Group?

79. HYPENA FUSCALIS.

Alæ fuscæ; anticæ arca interiore obscura, striga albida marginata, serie macularum albidarum submarginali.

Hypena fuscalis, *Bremer und Grey, Beitr. zur Schmett. Fauna des Nordlichen China's*, 22, 117.

North China.

Australia.

80. HYPENA MANCIPATALIS.

Fœm. *Læte cervina, gracilis; palpi porrecti; abdomen pallide cinereum; alæ anticæ falcatæ, nigro subconspersæ, linea submarginali e guttis albidis nigricante notatis, punctis submarginalibus nigris; posticæ pallide cinereæ, lineis diffusis obscurioribus, punctis submarginalibus nigricantibus.*

Female. Bright fawn-colour, slender, paler beneath. Palpi porrect, a little shorter than the thorax; second joint very pilose above; third also pilose, more than half the length of the second, with which it does not form an angle. Abdomen pale cinereous. Joints of the tarsi with white tips. Fore wings distinctly falcate, slightly and very minutely sprinkled with black; submarginal line composed of whitish blackish-marked dots, and having a row of black points between it and the exterior border. Hind wings pale cinereous, with two or three diffuse darker lines, and with blackish submarginal points; under side speckled, with a blackish discal dot, and with a blackish spot near the interior angle. Length of the body 4 lines; of the wings 10½ lines.

a. Sydney. From Mr. Diggles' collection.

Country unknown.

81. Hypena abstractalis.

Mas. *Ferrugineo-fusca, cinereo subconspersa; palpi thorace paullo breviores, dense squamosi-pilosi, articulo 3o obtuse fasciculato; alæ anticæ vix subfalcatæ, lineis interiore et exteriore fuscis, hac vix undulata extus pallido marginata, illa indistincta, linea submarginali nigricante denticulata incompleta.*

Male. Ferruginous-brown, minutely speckled with cinereous; under side cinereous. Palpi a little shorter than the thorax, densely squamo-pilose; third joint obtusely tufted at the tip. Wings with a dark brown marginal line. Fore wings hardly subfalcate; interior and exterior lines brown; the former indistinct; the latter hardly undulating, distinguished by its distinct pale outer border; submarginal line blackish, denticulated, incomplete. Hind wings and abdomen brownish cinereous. Length of the body 5 lines; of the wings 13 lines.

a. ———? From Mr. Milne's collection.

82. Hypena abjuralis.

Fœm. *Rufescente-cinerea; palpi cinerei, porrecti, pilosi, thorace breviores; alæ anticæ vix falcatæ, linea alba gracili perobliqua, fascia exteriore albida valde diffusa, puncto subapicali nigro, orbiculari nigra punctiformi, linea marginali fusca.*

Female. Reddish cinereous, slender; abdomen and under side paler. Palpi cinereous, porrect, slightly pilose, shorter than the thorax; third joint less than half the length of the second, with which it forms a distinct angle. Fore wings hardly falcate, with a white slender very oblique line, which extends from three-fourths of the length of the costa to the middle of the interior border, and has along its outer side a very diffuse whitish band, which includes a black subapical point; orbicular mark black, punctiform; marginal line brown, like that of the hind wings. Length of the body 3½ lines; of the wings 9 lines.

a. ———?

Genus 9. HYPENODES.

Corpus gracile. Proboscis brevis. Palpi porrecti, caput longe superantes; articulus 2us fasciculatus; 3us lanceolatus, 2i dimidio brevior. Antennæ corporis dimidio longiores, maris subciliatæ. Abdomen alas posticas paullo superans. Pedes graciles, nudi; tibiæ posticæ calcaribus longis. Alæ angustæ; anticæ apud costam vix convexæ, apice angulatæ, margine exteriore subconvexo perobliquo.

Hypenodes, *Guen. MSS.; Doubl. Zool. App.* 1850; *Guen. Delt. et Pyral.* 41.

Cledeobia, *Steph. Ill. Brit. Haust.* 159.; *Herr.-Schæff.*

Body slender. Proboscis short. Palpi porrect, extending far beyond the head; second joint tufted; third lanceolate, bare, less than half the length of the second, with which it forms an angle. Antennæ little more than half the length of the body, minutely ciliated in the male. Abdomen extending a little beyond the hind wings. Legs slender, bare; hind tibiæ with long spurs. Wings narrow. Fore wings hardly convex along the costa, acutely angular at the tips, slightly convex and very oblique along the exterior border.

1. HYPENODES ALBISTRIGALIS.

Pallide testaceo-cinerea; alæ anticæ fuscescente subnebulosæ, squamis nonnullis elevatis fuscis, linea exteriore pallida flexa, punctis marginalibus fuscis pallido extus marginatis; posticæ pallide cinereæ.

Crambus albistrigatus, *Haw. Lep. Brit.* 368.

Cledeobia albistrigalis, *Steph. Ill. Brit. Haust.* 20. *Wood, Ill.* 771.

Hypenodes albistrigalis, *Guen. Delt. et Pyral.* 42, 48.
Pyralis tænialis? *Hübn. Eur. Schm. Pyral.* f. 151.

a—k. England. From Mr. Stephens' collection.
l—n. England.

2. HYPENODES COSTÆSTRIGALIS.

Subcervino-cinerea; abdomen pallide cinereum; alæ anticæ fuscescente subnebulosæ, linea exteriore pallida subundulata valde obliqua nigricante submarginata, interiore angulosa indistincta; posticæ cinereo-albidæ

Cledeobia costæstrigalis, *Steph. Ill. Brit. Haust.* 21. *Wood, Ill.* f. 772.
Pyralis acuminalis, *Herr.-Schæff. Schm. Eur.* f. 619.
Hypenodes costæstrigalis, *Guen. Delt. et Pyral.* 42, 49.

a—d. England. From Mr. Stephens' collection.

Genus 10. SCHRANCKIA.

Corpus gracile. Proboscis brevis. Palpi squamosi, non pilosi, valde arcuati, caput posticum superantes; articulus 3us lanceolatus, 2o brevior. Antennæ corporis dimidio longiores, maris subserratæ. Abdomen alas posticas paullo superans. Pedes graciles, nudi; tibiæ posticæ calcaribus longis. Alæ sat angustæ, fimbria lata; anticæ apud costam vix convexæ, apice rectangulatæ, margine exteriore subconvexo subobliquo.

Schrankia, *Herr.-Schæff. Schm. Eur.* ii. 448; *Guen. Delt. et Pyral.* 43.

Hypenodes, *Steph. Cat. Lep. Brit. Mus.*

Body slender. Proboscis short. Palpi squamous, not pilose, much curved, extending over the back of the head; third joint lanceolate, a little shorter than the second. Antennæ a little more than half the length of the body, minutely serrated in the male. Abdomen extending a little beyond the hind wings. Legs slender, bare; hind tibiæ with long spurs. Wings rather narrow; fringe broad. Fore wings hardly convex along the costa, rectangular at the tips, slightly convex and oblique along the exterior border. This genus is included by Guenée with the *Hypenidæ*, but its characters agree much better with those of the *Herminidiæ*.

1. Schranckia turfosalis.

Cinerea; alæ anticæ puncto basali, lineis tribus obliquis punctularibus incompletis punctisque marginalibus nigris; posticæ nigro-cinereæ, fimbria cinerea.

Hypena turfosalis, *Wocke, Zeit. Ent.* 1850, pl. 5, f. 17.
Schranckia turfosalis, *Herr.-Schæff. Schm. Eur.* ii. 448, f. 620. *Guen. Delt. et Pyral.* 44, 50.
Hypenodes humidalis, *H. Doubl. Zool.* viii. *App.* cv. *Steph. Cat. Lep. Brit. Mus.* 234.

a—e. Ireland. From Mr. Bouchard's collection.
f. England. From Mr. Foxcroft's collection.
g—m. England. From Mr. Stephens' collection.

Genus 11. GISIRA.

Mas. Corpus vix robustum. Fasciculus frontalis latus, acutus. Proboscis sat brevis. Palpi sat graciles, oblique ascendentes, thorace breviores; articulus 3us lanceolatus, gracillimus, 2i dimidio brevior. Antennæ subsetosæ, thoracis dimidio longiores. Abdomen alas posticas non superans; fasciculus apicalis minimus. Pedes sat validi, non pilosi; tibiæ posticæ calcaribus longis. Alæ amplæ, longiusculæ; anticæ vix falcatæ, margine exteriore apud medium subflexo.

Male. Body hardly stout. Frontal tuft prominent, broad, acute. Proboscis rather short. Palpi rather slender, obliquely ascending, somewhat pilose above, shorter than the thorax; third joint lanceolate, very slender, less than half the length of the second, with which it forms a slight angle. Antennæ minutely and thinly setose, more than half the length of the body. Abdomen not extending beyond the hind wings; apical tuft very small. Legs rather stout, not pilose; hind tibiæ with long spurs. Wings ample, rather long. Fore wings indistinctly subfalcate; exterior border slightly bent in the middle.

1. Gisira acclamalis.

Mas. *Sordide albida, subtus cinerea; palpi extus fuscescentes; alæ anticæ fasciis diffusis undulatis cinereis, interiore et exteriore indistinctis, hac abbreviata, submarginali lata distincta, linea contigua tenui valde denticulata, reniformi nigra arcuata postice dilatata; posticæ obscure cinereæ, fascia diffusa incompleta pallidiore.*

Male. Dingy whitish, cinereous beneath. Palpi brownish on the outer side except towards the tips. Abdomen somewhat cinereous. Fore wings with diffuse undulating cinereous bands; interior and exterior bands indistinct, the latter obsolete in front of the reniform mark; submarginal band broad, distinct, preceded by a slender much denticulated line; reniform mark black, curved, dilated hindward. Hind wings dark cinereous, with a paler diffuse and incomplete band. Length of the body 6½ lines; of the wings 18 lines.

a. Venezuela. From Mr. Dyson's collection.

Genus 12. HYAMIA.

Fœm. Corpus sat validum. Fasciculus frontalis latus, sat acutus. Proboscis brevissima. Palpi validi, recti, oblique ascendentes, subtus pilosi, thorace breviores; articulûs 3us 2i dimidio non brevior. Antennæ graciles, simplices, corporis dimidio valde longiores. Abdomen alas posticas vix superans. Pedes sat graciles, vix pilosi; tibiæ posticæ calcaribus longis. Alæ amplæ; anticæ subfalcatæ, margine exteriore subangulato antice subconcavo; posticæ margine exteriore vix flexo.

Female. Body moderately stout. Frontal tuft prominent, broad, rather acute. Proboscis very short. Palpi stout, straight, obliquely ascending, pilose beneath, shorter than the thorax; third joint lanceolate, full half the length of the second. Antennæ simple, slender, much more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs rather slender, hardly pilose; hind tibiæ with long spurs. Wings ample; fringe broad. Fore wings subfalcate; exterior border forming a slight angle at a little in front of the middle, its fore part slightly concave, its hind part straight and oblique. Hind wings with the exterior border indistinctly bent.

1. HYAMIA PALPITATALIS.

Fœm. *Pallide-testacea, fusco subconspersa; palpi fusci supra pallidi; alæ subtus gutta discali punctisque marginalibus elongatis nigris; anticæ lineis undulatis valde indistinctis; posticæ non conspersæ.*

Female. Pale testaceous, with minute brown speckles, which are most prevalent on the under side of the hind wings. Palpi

brown except on the upper side. Wings with a black discal dot on each beneath; marginal points black, elongated. Fore wings with the transverse lines undulating, a little darker than the ground-colour, very indistinct. Hind wings hardly paler than the fore wings, but without speckles. Length of the body 6 lines; of the wings 14 lines.

a. Ega. From Mr. Bates' collection.

Genus 13. DORYODES.

Mas. Corpus vix robustum. Fasciculus frontalis acutus. Proboscis brevis. Palpi validi, porrecti, lanceolati, pilosi; articulus 3us brevis. Antennæ subpectinatæ, corporis dimidio paullo longiores. Abdomen sublanceolatum, alas posticas superans; fasciculus apicalis longiusculus. Pedes graciles, subnudi; tibiæ posticæ calcaribus longis. Alæ longiusculæ, sat angustæ; anticæ margine exteriore postico perobliquo, angulo interiore valde rotundato.

Doryodes, *Guen. Phal.* ii. 233.
Hermœa *Cat. Lep Het. 4th Ser.* 12.

Male. Body hardly stout. Frontal tuft prominent, acute. Proboscis short. Palpi stout, porrect, lanceolate, pilose; third joint full one-fourth of the length of the second. Antennæ slightly pectinated, little more than half the length of the body. Abdomen slightly lanceolate, extending rather beyond the hind wings; apical tuft rather long. Legs slender, almost bare; hind tibiæ with long spurs. Wings rather long and narrow. Fore wings rectangular at the tips; hind part of the exterior border very oblique; interior angle much rounded.

1. Doryodes acutalis.

Mas. *Cervina; alæ anticæ lineis duabus subrectis perobliquis pallide testaceis fusco marginatis, linea interiore angulata, exteriore interlineata, linea subapicali tenui obliqua subarcuata pallide testacea, guttis submarginalibus fuscis elongatis pallido marginatis, reniformi e guttis duabus fuscis.*

Geometra acutaria, *Herr.-Schæff. Schmett. Eur. Suppl.* 74, f. 447.
Doryodes acutaria, *Guen. Phal.* ii. 233, 1305. Pl. 17, f. 6.

Male. Fawn-colour. Abdomen, hind wings and under side whitish testaceous. Fore wings with two very oblique and nearly straight pale testaceous brown-bordered lines; the interior one forming an angle near the costa; the exterior one interlined, extending

from the middle of the interior border to the tip of the wing, near which it is connected with a slender pale testaceous oblique slightly curved costal line; submarginal dots brown, elongated, with pale borders; reniform mark forming two brown dots. Hind wings with brown marginal points. Length of the body 5½ lines; of the wings 12 lines.

a—c. United States. Presented by E. Doubleday, Esq.

Genus 14. HORMISA.

Mas. Corpus gracile. Fasciculus frontalis acutus. Proboscis brevissima. Palpi longi, graciles, compressi, subpilosi, oblique ascendentes; articulus 3us 2i dimidio brevior. Antennæ subpectinatæ, corporis dimidio non longiores. Thorax squamosus, pilis arcte applicatis. Abdomen alas posticas superans. Pedes graciles, nudi; tibiæ posticæ calcaribus longis. Alæ anticæ margine exteriore sat obliquo vix convexo.

Male. Body slender. Frontal tuft prominent, acute. Proboscis very short. Palpi long, slender, compressed, slightly pilose, obliquely ascending; third joint lanceolate, less than half the length of the body. Antennæ slightly pectinated, about half the length of the body. Thorax squamous, with closely applied hairs. Abdomen extending rather beyond the hind wings. Legs slender, bare; hind tibiæ with long spurs. Wings moderately broad. Fore wings rectangular at the tips, rather oblique and hardly convex along the exterior border.

This genus has some resemblance to the *Herminidæ* in the structure of the palpi, and is very like many of the *Geometrites* in the markings of the wings, but agrees with the *Hypenidæ* in the frontal tuft.

1. HORMISA ABSORPTALIS.

Mas. *Albido-cinerea; alæ anticæ fusco subconspersæ, lineis fuscis, interiore valde denticulata, exteriore perobliqua versus costam arcuata, submarginali recta intus diffusa, reniformi fusca punctiformi; posticæ lineis duabus indistinctis denticulatis fuscescentibus.*

Male. Whitish cinereous, a little darker on the under side. Fore wings very minutely speckled with brown; lines brown; interior line much denticulated; exterior line very oblique, forming an

abrupt curve by the costa; submarginal line straight, much less oblique than the exterior one, diffuse on the inner side; reniform mark brown, punctiform; marginal line brown. Hind wings with two indistinct denticulated brownish lines. Length of the body 6 lines; of the wings 11 lines.

a. United States. Presented by E. Doubleday, Esq.

Genus 15. GESONIA.

Mas. Corpus vix robustum. Fasciculus frontalis subtruncatus. Proboscis breviuscula. Palpi breves, porrecti; articulus 2us supra convexus, subtus pilosus; 3us longi-conicus, 2i dimidio brevior. Antennæ serratæ, ciliatæ, corporis dimidio vix breviores. Thorax squamosus. Abdomen sat planum, alas posticas non superans. Pedes sat validi, vix pilosi; tibiæ posticæ calcaribus longis. Alæ mediocres, fimbria lata; anticæ margine exteriore obliquo subrecto.

Male. Body hardly stout. Frontal tuft somewhat truncate at the tip. Proboscis rather short. Palpi short, porrect, hardly longer than the breadth of the head; second joint convex above, pilose beneath; third elongate-conical, less than half the length of the second. Antennæ serrated, ciliated, little more than half the length of the body. Thorax squamous. Abdomen rather flat; not extending beyond the hind wings. Legs rather stout, hardly pilose; hind tibiæ with long spurs. Wings moderately broad; fringe broad. Fore wings rectangular at the tips, almost straight and moderately oblique along the exterior border.

This genus is obviously allied to *Hypena*, notwithstanding the short palpi and the obtuse frontal tuft, in which last character it differs from all the other genera of the family.

1. GESONIA OBEDITALIS.

Mas. *Rufescente-fusca; palpi obscure fusci, supra cinerei; alæ anticæ lineis interiore et exteriore nigricantibus denticulatis indistinctis, lineis nonnullis diffusis obliquis undulatis cinereis, punctis marginalibus et orbiculari punctiformi nigris, reniformi e annulo oblongo punctum nigrum includente; posticæ cinereæ, lineis duabus obscure cinereis subtus conspicuis.*

Male. Reddish brown, mostly cinereous beneath. Palpi dark brown, cinereous above. Abdomen cinereous. Fore wings with the interior and exterior lines blackish, denticulated, indistinct; some diffuse oblique undulating cinereous lines; one extending from the interior line to the base, obsolete in front; the others beyond the exterior line; marginal points black; orbicular mark black, punctiform; reniform forming an oblong ringlet which encloses a black point. Hind wings cinereous, with black marginal points, and with two dark cinereous lines which are almost obsolete above but distinct beneath. Length of the body 3½ lines; of the wings 8 lines.

a. Ceylon. From Mr. Stevens' collection.

Genus 16. ABÆRA.

Mas. Corpus sat gracile, squamosum, glabrum. Oculi magni. Palpi validi, porrecti, supra pilosi, thorace non breviores; articulus 3us subfusiformis, 2i dimidio vix brevior. Antennæ nitentes, simplicissimæ, corporis dimidio valde longiores; articulus 1us longus, validus. Abdomen breviusculum; fasciculus apicalis parvus. Tibiæ posticæ calcaribus longissimis. Alæ mediocres, lituris nullis; anticæ costa subconvexa, fasciculo parvo costali, margine interiore subemarginato; posticæ abdomen paullo superantes.

Male. Body rather slender, and, like the wings, palpi and legs, squamous and with a metallic hue. Frontal tuft prominent. Eyes large, prominent. Palpi stout, porrect, pilose above, as long as the thorax; third joint subfusiform, nearly half the length of the second. Antennæ smooth, shining, quite simple, much more than half the length of the body; first joint long, stout. Abdomen rather short; apical tuft small. Hind tibiæ with very long spurs. Wings moderately broad, without markings. Fore wings rectangular at the tips; costa slightly convex, with a small nearly flat tuft at a little beyond the middle; interior border slightly emarginate. Hind wings extending a little beyond the abdomen.

This genus is very different from all the other genera of *Hypenidæ* in the structure of the wings, but agrees with *Hypena* in the palpi.

1. Abæra nactalis.

Mas. *Purpurascente-euprea, subtus ænea; abdominis segmenta pallido marginata; alæ anticæ chalybæo pallido variæ; posticæ æneæ, strigis apud angulum interiorem duabus pallide chalybeis.*

Male. Purplish cupreous, somewhat æneous beneath. Abdominal segments with pale borders. Fore wings partly pale chalybeous, which hue prevails most along the exterior border. Hind wings æneous, with two pale chalybeous streaks near the interior angle. Length of the body 3½ lines; of the wings 9 lines.

a. Ega. From Mr. Bates' collection.

Genus 17. LAMETIA.

Fœm. Corpus robustum. Fasciculus frontalis acutus. Proboscis brevissima. Palpi validi, oblique ascendentes, subtus subpilosi, thorace paullo longiores; articulus 2us arcuatus; 3us fasciculo apicali magno obtuso. Antennæ validæ, nudæ, compressæ, corporis dimidio non longiores. Thorax squamosus. Abdomen alas posticas paullo superans. Pedes validi, vix pilosi; tibiæ posticæ calcaribus longis. Alæ longæ, amplæ; anticæ subfalcatæ, margine exteriore convexo postice obliquo.

Female. Body stout. Frontal tuft prominent, acute. Proboscis very short. Palpi stout, obliquely ascending, slightly pilose beneath, a little longer the thorax; second joint curved; third about one-fourth of the length of the second, furnished with a large obtuse tuft of hairs. Antennæ stout, bare, compressed, about half the length of the body. Thorax squamous. Abdomen extending a little beyond the hind wings. Legs stout, hardly pilose; hind tibiæ with long spurs. Wings long, ample. Fore wings subfalcate; exterior border convex, not oblique except the hind part.

This genus is evidently allied to the Mexican and seventh South American group of *Hypena*, from which it is chiefly distinguished by the structure of its palpi.

1. Lametia ignitalis.

Fœm. *Rufescente-cinerea; palpi cinereo varii, apice nigricantes; abdomen obscure cinereum, subtus pallide testaceum; alæ anticæ linea albida valde flexa, spatio posteriore saturate rufo, plaga apud angulum interiorem læte rufa, reniformi e macula fusca; posticæ luteæ, margine lato purpurascente-cupreo.*

Female. Reddish cinereous. Palpi partly cinereous, blackish at the tips. Abdomen dark cinereous, pale testaceous beneath. Fore wings with a whitish very deeply curved line, which leaves the

costa at one-third of the length, extends nearly to the interior border, and returns thence to the costa near the tip of the wing; space between it and the exterior border and along the interior border deep red, with a bright red patch near the interior angle; reniform mark forming a brown spot. Hind wings luteous, with a broad purplish cupreous border, which is attenuated towards the interior angle. Length of the body 9 lines; of the wings 22 lines.

a. Ega. From Mr. Bates' collection.

Genus 18. MACNA.

Mas. Corpus sat robustum. Proboscis brevis. Palpi porrecti, compressi, fasciculati, thorace breviores; articulus 3us lanceolatus, 2i triente brevior. Antennæ simplices, graciles, nudi, corporis dimidio non longiores. Abdomen conicum. Pedes sat validi; tibiæ posticæ calcaribus longis. Alæ latæ; anticæ apud costam subconvexæ, apice rectangulatæ, margine exteriore subproducto; posticæ abdomen superantes.

Male. Body rather stout. Proboscis short. Palpi porrect, compressed, tufted, rather shorter than the thorax; third joint lanceolate, less than one-third of the length of the second. Antennæ simple, slender, bare, not more than half the length of the body. Abdomen conical. Legs rather stout; hind tibiæ with long spurs. Wings broad. Fore wings very slightly convex along the costa, rectangular at the tips; exterior border rather oblique, somewhat prominent in the middle. Hind wings extending beyond the abdomen.

1. MACNA POMALIS.

Mas. *Pallide pomacea, subtus testacea; alæ linea exteriore fuscescente subrecta; anticæ macula postica punctoque exteriore fuscis, linea exteriore extus albido marginata; posticæ albido-testaceæ, sericeæ.*

Male. Pale apple-green. Palpi and under side mostly testaceous. Wings with a brownish nearly straight exterior line, which in the fore wings has a whitish outer border. Fore wings with a brown spot near the interior border by the inner side of the exterior line, and with a brown point nearer the exterior border. Hind wings whitish testaceous, silky. Length of the body 7 lines; of the wings 22 lines.

Singapore. In Mr. Wallace's collection.

Addenda to the Hypenidæ.

HYPENA MASURIALIS.

Fusco-testaceæ; alæ anticæ stria alba obliqua ab angulo antico versus medium marginis postici ducta.

Hypena obliqualis, *Koll, Von. Hug. Kaschm.* iv. 491.
Hypena masurialis, *Guen. Delt. et Pyral.* 38, 40.

Massuri, Himalaya.

HYPENA? GEMINALIS.

Cinerea; alæ anticæ fuscæ basi cinereæ striga fusca, postice cinereæ punctis duobus approximatis discalibus majoreque albo, margine dentato; alæ subtus striga media lunulata nigra.

Hyblæa gemina, *Fabr. Syst. Gloss.* 128, 6.

Hindostan.

HYPENA? ELONGALIS.

Fusca; palpi porrecti, thorace longiores; abdomen cinerascens; alæ anticæ striga media undata obscuriore, strigis apicalibus undatis albis, margine exteriore dentato punctis nigris; posticæ cinerascentes.

Phalæna elongalis, *Fabr. Syst. Gloss.* 221, 345.

Tranquebar.

HYPENA MANALIS.

Fœm. *Fuscescente-cinerea; palpi porrecti, subpilosi, thorace breviores; abdomen cristatum; alæ latiusculæ, breviusculæ; anticæ vix falcatæ, plaga magna obliqua subrhomboidali nigricante-fusca albido marginata intus subundulata extus concava, striga apicali lata obliqua pallide cinerea, postice nigro-fusco late marginata, linea submarginali e guttis nigris.*

Femule. Brownish cinereous, paler beneath. Palpi porrect, slightly pilose, shorter than the thorax; third joint full half the

length of the second, with which it forms a distinct angle. Abdomen cinereous, crested. Wings rather broad and short. Fore wings hardly falcate, with a large oblique subrhomboidal blackish brown patch; this is slightly undulating on the inner side, concave on the outer side, joins the costa, has a whitish border, and rounded angles; a pale cinereous broad oblique apical streak, which is broadly bordered with blackish brown on the hinder side; submarginal line indicated by black dots. Hind wings without markings. Length of the body 4½ lines; of the wings 10 lines.

a, b. United States. Presented by E. Doubleday, Esq.

Hypena pacatalis.

Fœm. H. pacificali *affinis. Cinereo-fusca; palpi validi, porrecti, pilosi, thorace non breviores; alæ anticæ subfalcatæ, punctis paucis discalibus nigris, lineis exteriore et submarginali fuscis denticulatis indistinctis, fimbria interlineata.*

Closely allied to *H. pacificalis*, but apparently distinct. *Female.*—Cinereous-brown, a little paler beneath. Palpi stout, porrect, pilose, as long as the thorax; third joint about one-fourth of the length of the second, with which it forms an angle. Wings moderately broad. Fore wings subfalcate, with a few black points in the disk; exterior and submarginal lines brown, denticulated, indistinct; marginal line brown; fringe interlined like that of the hind wings, which are not paler than the fore wings. Length of the body 4½ lines; of the wings 12 lines.

a. St. Domingo. From Mr. Tweedie's collection.

Hypena acolinalis.

Mas. *Cinereo-fusca; antennæ graciles, simplices; alæ longiusculæ, sat angustæ; anticæ non falcatæ, cinereo ex parte nebulosæ, lineis tribus cinereis obliquis subundulatis distinctioribus, submarginali interrupta, punctis duobus subapicalibus bene determinatis, lineis duabus fuscis indistinctis undulatis; posticæ linea subtus discali fusci.*

Male. Cinereous-brown. Palpi porrect, pilose, rather stout, almost as long as the thorax; third joint not more than one-third of the length of the second, with which it forms a marked angle. Antennæ slender, simple. Abdomen not crested. Wings rather long

and narrow. Fore wings not falcate, partly clouded with cinereous, with three more distinct oblique slightly undulating cinereous lines; third or submarginal one interrupted, accompanied by white points, of which the subcostal pair are more distinct than the others and appear also on the under side; an indistinct undulating brown line on each side of the exterior line; marginal line brown, like that of the hind wings, which have a brown discal line on the under side. Length of the body 4 lines; of the wings 11 lines.

Brazil. In Mr. Saunders' collection.

Hypena mœstalis.

Fœm. *Obscure ferruginea, valida; palpi porrecti, sat graciles, pilis arcte applicatis, thorace vix breviores; alæ longæ, latiusculæ; anticæ subfalcatæ, subpurpurascentes, lineis interiore et exteriore nigricantibus denticulatis indistinctis, submarginali fusca undulata postice subobsoleta pallido extus submarginata, lunulis marginalibus nigricantibus, reniformi nigra pallido notata; posticæ fuscæ, lineis indistinctis obscurioribus.*

Female. Dark ferruginous, rather stout, brownish cinereous beneath. Palpi porrect, rather slender, with closely applied hairs, about as long as the thorax; third joint whitish towards the tip, less than one-third of the length of the second, with which it forms an angle. Wings long, rather broad. Fore wings subfalcate, with a slight purplish tinge; interior and exterior lines blackish, denticulated, indistinct; submarginal line brown, undulating, almost obsolete hindward, with a slight and incomplete pale outer border; marginal lunules blackish; reniform mark black, with the disk mostly pale. Hind wings brown, with two indistinct darker lines, which are most apparent on the under side, where there is also a brown discal mark. Length of the body 6 lines; of the wings 16 lines.

Brazil. In Mr. Saunders' collection.

Hypena hastatalis.

Fœm. *Cinereo-albida; fasciculus frontalis parvus; palpi fuscescentes, porrecti, graciles, thorace paullo longiores; articulus 2us subarcuatus; pedes longi, graciles; alæ longæ; anticæ subfalcatæ, nigro vix conspersæ, lineis denticulatis nigricantibus indistinctis incompletis lineisque nonnullis obliquis valde incompletis e punctis guttisque nigris; posticæ obscuriores.*

Female. Cinereous whitish; under side darker and tinged or speckled with brownish. Frontal tuft small. Palpi brownish, porrect, slender, slightly pilose above, a little longer than the thorax; second joint very slightly curved downward; third lanceolate, not more than one-fifth of the length of the second. Abdomen and hind wings rather darker than the fore wings. Legs long and slender. Wings long, moderately broad. Fore wings subfalcate, with a few minute black speckles, and with some black points and dots which are arranged in very incomplete oblique lines; some indistinct and incomplete denticulated blackish lines; submarginal dots and marginal points black. Hind wings with an indistinct discal line. Length of the body 6 lines; of the wings 17 lines.

This species of itself forms a section in the genus on account of its small frontal tuft and of the structure of its palpi.

Brazil. In Mr. Saunders' collection.

Hypena vulgatalis.

Fœm. *Cinereo-fusca; palpi porrecti, subpilosi, sat validi, thorace non breviores; alæ anticæ subfalcatæ, extus subpallidiores, linea exteriore nigra subundulata subdenticulata albido extus marginata.*

Female. Cinereous-brown. Palpi porrect, rather stout, slightly pilose, as long as the thorax; third joint not more than one-third of the length of the second, with which it forms a slight angle. Wings moderately broad. Fore wings subfalcate, somewhat paler beyond the exterior line, which like the interior one is black, with a whitish outer border, and is slightly undulating and denticulated; submarginal line composed of whitish black-marked dots, its fore end traversing the junction of two costal patches, of which one is dark brown, the other whitish and apical; orbicular and reniform marks small, black. Hind wings a little paler than the fore wings; under side with a dark discal band. Length of the body 5 lines; of the wings 13 lines.

a, b. Cape. From M. Dregé's collection.

Hypena palpitralis.

Mas. *Cinereo-fusca, gracilis; palpi porrecti, thorace vix breviores; articulus 2us subarcuatus; alæ anticæ cinereæ, subfalcatæ, sat angustæ, fusco subtilissime nebulosæ, linea exteriore fusco*

denticulato extus pallido marginata, submarginali e guttis nigricantibus pallido notatis, orbiculari e gutta nigricante; posticæ fuscæ.

Hypena palpitralis, *M. B. MSS.*

Male. Cinereous-brown, slender, more cinereous beneath. Palpi porrect, moderately pilose, nearly as long as the thorax; second joint very slightly curved; third about one-third of the length of the second, with which it forms a slight angle. Fore wings cinereous, rather narrow, subfalcate, minutely mottled with brown; exterior line brown, denticulated, with a pale outer border; submarginal line indicated by blackish dots with pale outer marks; orbicular mark forming a blackish dot. Hind wings brown, without markings. Length of the body 5 lines; of the wings 12 lines.

a. Cape. From M. Dregé's collection.

HYPENA LÆTALIS.

Fœm. *Ferruginea; palpi graciles, porrecti aut vix ascendentes, supra nigro pilosi, thorace vix breviores; alæ anticæ subfalcatæ, linea exteriore alba tenui recta obliqua, spatio exteriore fuscescente, linea submarginali e punctis nigricantibus, orbiculari nigra punctiformi.*

Female. Ferruginous, cinereous beneath. Palpi slender, porrect or hardly ascending, with black hairs above, nearly as long as the thorax; third joint full one-third of the length of the second, with which it hardly forms an angle. Wings moderately broad. Fore wings subfalcate, with a slender straight oblique exterior white line, beyond which they are more brownish than ferruginous; submarginal line indicated by blackish points; orbicular mark black, punctiform. Hind wings a little paler than the fore wings. Length of the body 4 lines; of the wings 11 lines.

West Africa. In Mr. Saunders' collection.

HYPENA SUSCITATALIS.

Mas. *Pallide fusca; palpi subascendentes, thorace paullo breviores; antennæ sat validæ; abdomen longum; alæ anticæ longæ, subfalcatæ, nigro subconspersæ, lineis nigricantibus denticulatis indistinctis, puncto basali nigro, orbiculari et reniformi nigricantibus, gutta subtus nigricante subcostali; posticæ linea indistincta discali obscuriore.*

Male. Pale brown. Palpi slightly ascending, a little shorter than the thorax; second joint pilose above; third lanceolate, more porrect than the second and more than half its length. Antennæ rather stout. Abdomen long, extending somewhat beyond the hind wings. Wings long. Fore wings subfalcate, thinly and minutely speckled with black; lines denticulated, blackish; submarginal line rather more conspicuous than the others, which are very indistinct; a black basal point; orbicular and reniform marks blackish, the latter interrupted; marginal points black; under side with a blackish dot close to the costa at five-sixths of the length. Hind wings a little paler and more cinereous than the fore wings, with an indistinct exterior line, which appears also beneath. Length of the body 8 lines; of the wings 18 lines.

This species has some resemblance to the group of *H. paritalis* as regards the wings, but differs much from it in the structure of the palpi.

a. ———? Presented by the Entomological Club.

HYPENA SURREPTALIS.

Fœm. *Cinerea, nigro conspersa; palpi validi, porrecti, pilosi; alæ anticæ subfalcatæ, linea interiore valde indistincta, exteriore fusca recta obliqua lata extus pallido marginata, submarginali indistincta, striga subapicali subdivisa atra, lineola subapicali albida, orbiculari e gutta fusca.*

Female. Cinereous. Palpi stout, porrect, pilose, rather shorter than the thorax; third joint not more than one-third of the length of the second, with which it forms a distinct angle. Thorax and fore wings speckled with black. Abdomen and hind wings somewhat paler. Fore wings subfalcate, moderately broad; interior line very indistinct; exterior line brown, straight, oblique, broad, with a pale outer border; submarginal line indistinct, shortened in front by a deep black almost divided subapical streak, in front of which there is a little whitish line; marginal lunules black; orbicular mark forming a brown dot. Hind wings without markings. Length of the body 5 lines; of the wings 12 lines.

Ceylon. In Mr. Layard's collection.

HYPENA INEFFECTALIS.

Fuscescente-cinerea ; palpi porrecti, graciles, late ciliati, vix angulati ; alæ anticæ subfalcatæ, lineis fuscis denticulatis indistinctis, orbiculari nigra punctiformi, lunulis marginalibus fuscis ; posticæ litura discali fasciaque fuscis.

Brownish cinereous. Palpi porrect, slender, broadly but finely ciliated above, about as long as the thorax ; third joint linear, white at the tip, nearly half the length of the second, with which it hardly forms an angle. Wings hardly broad. Fore wings subfalcate, lines brown, denticulated, indistinct ; orbicular mark black, punctiform ; marginal lunules brown. Hind wings with a brown band and a brown discal mark. Length of the body 2¾ lines ; of the wings 6½ lines.

a. Ceylon. Presented by R. Templeton, Esq.

Fam. 3. HERMINIDÆ.

Frons non prominens. Palpi varii, sæpissime arcuati, maris et fœminæ dissimiles. Antennæ pubescentes, ciliatæ, flagello sæpe incurvo aut tumido aut fasciculato. Tibiæ anticæ sæpe tumidæ et fasciculatæ. Alæ anticæ validæ, pulverulentæ ; posticæ lituris variis nunquam omnino obsoletis.

Herminidæ, p., *Duponch. ; Herr.-Schæff.*
Herminidæ, *Guen. Delt. et Pyral.* 45.

Front not prominent. Palpi variable, generally curved, differing according to the sex. Antennæ pubescent, with two longer ciliæ on each joint, exteriorly often curled, or tumid, or furnished with a tuft of hairs or of scales. Fore tibiæ often tumid, and furnished with bushes of silky hairs, or with bunches of woolly or scaly hairs. Fore wings stout, pulverose, with or without an areolet, without tufts of promiuent scales. Hind wings with variable markings, but always with some traces of the lines of the fore wings, especially beneath ; independent vein variable.

A. Alæ anticæ costa non excavata.
A. Alæ posticæ apice non luteæ.
a. Palporum articulus 3us non brevissimus.
a. Antennæ triente basali non incrassata.
i. Alæ anticæ lineis nitentibus. - 1. CYCLOPTERYX, *Guen.*
ii. Alæ anticæ lineis nullis nitentibus.
* Pedes postici longissimi.
† Palpi rejecti. - - 7. HYDRILLODES, *Guen.*
†† Palpi non rejecti. - - 52. OLYBAMA, *Walk.*
** Pedes postici non longissimi.
† Palporum articulus 3us quasi spatulatus.
‡ Abdomen alas posticas non superans.
8. BLEPTINA, *Guen.*
‡‡ Abdomen alas posticas longe superans.
53. MELIABA, *Walk.*
†† Palporum articulus 3us non spatulatus.
‡ Caput bicornutum.
§ Capitis cornua rejecta. 24. LOCASTRA, *Walk.*
§§ Capitis cornua erecta. 21. MACALLA, *Walk.*
‡‡ Caput non cornutum.
§ Alæ anticæ macula vitrea. 40. EDETA, *Walk.*
§§ Alæ anticæ macula nulla vitrea.
→ Palpi maxillaris bene determinati.
28. ADRAPA, *Walk.*
→→ Palpi maxillares non bene determinata.
++ Palporum articulus 1us longissimus.
19. MASTYGOPHORA, *Poey.*
++++ Palporum articulus 1us non longissimus.
ᔕ Fasciculus frontalis acutus.
56. CHUSARIS, *Walk.*
ᔕᔕ Fasciculus frontalis non acutus.
+ Palpi porrecti.
0 Palpi non angulati.
49. ENSIPIA, *Walk.*
00 Palpi angulati.
9. ARISTARIA, *Guen.*
++ Palpi non porrecti.
0 Alæ anticæ margine exteriore valde obliquo.
|| Antennæ non pectinatæ.
26. EDESSENA, *Walk.*

||| Antennæ maris pectinatæ.
41. Neviasca, *Walk.*
00 Alæ anticæ margine exteriore non valde obliquo.
|| Antennæ basi densissime fasciculatæ.
25. Macella, *Walk.*
||| Antennæ basi non densissime fasciculatæ.
+ Palpi supra thoracem reversi.
× Antennæ maris pectinatæ.
48. Eordæa, *Walk.*
×× Antennæ non pectinatæ.
= Palpi angulati.
... Alæ posticæ basi subtus inflatæ. 11. Sitophora, *Gn.*
..... Alæ posticæ non inflatæ.
39. Echana, *Walk.*
= Palpi maris angulati.
18. Heterogramma, *Guen.*
= = Palpi non angulati.
... Palpi non fasciculati.
4. Simplicia, *Guen.*
..... Palpi fasciculati.
— Alæ anticæ costa subconcava. 15. Rejectaria, *Gn.*
—— Alæ anticæ costa non concava.
o Antennæ maris nodosæ.
- Alæ anticæ margine exteriore flexo.
17. Megatomis, *Hbn.*
-- Alæ anticæ margine exteriore non flexo.
36. Gizama, *Walk.*
o o Antennæ non fasciculatæ.
- Palpi fasciculis non longis.
. Conspectus geometriformis.
54. Isana *Wlk.*
.. Conspectus non geometriformis.
20. Palthis, *Hbn.*

-- Palpi maris fasciculis longissimis. 27. Bertula, *Walk.*

++ Palpi supra thoracem non reversi.

\+ Proboscis longa.

3. Sophronia, *Dup.*

×× Proboscis brevis.

... Corpus gracile.

— Fœminæ palpi articulo 2o porrecto.

16. Physula, *Guen.*

—— Fœminæ palpi articulo 3o non porrecto.

○ Alæ anticæ margine exteriore non flexo.

○ Palporum articulus 3us acutus.

- Palporum articulus 3us 2o brevior.

. Alæ latæ aut latiusculæ.

5. Herminia, *Latr.*

.. Alæ angustæ.

23. Mardara, *Walk.*

-- Palporum articulus 3us 2o non brevior.

43. Lysimelia, *Walk.*

○○ Palporum articulus 3us obtusus.

35. Opotura, *Walk.*

—— Alæ anticæ margine exteriore flexo et nonnunquam denticulato.

○ Palporum articulus 3us non dense fasciculatus.

- Palporum articulus 3us acutus.

58. Egnasia, *Walk.*

-- Palporum articulus 3us obtusus.

59. Throana, *Walk.*

○○ Palporum articulus 3us dense fasciculatus.

60. Onevatha, *Walk.*

—— Corpus robustum.

= Alæ anticæ margine interiore dense lanuginoso.

38. Imma, *Walk.*

= = Alæ anticæ margine interiore non dense lanuginoso.
0 Palporum articulus 2us arcuatus.
... Palporum articulus 3us non fasciculatus.
- Alæ anticæ margine exteriore flexo.
31. Hipoepa, *Walk.*
- - Alæ anticæ margine exteriore non flexo.
m Antennæ sat longæ.
a Palporum articulus 3us apice acutus.
v Palporum articulus 2o non brevior.
33. Ipnea, *Walk.*
vv Palporum articulus 3us 2i dimidio longior.
29. Bocana, *Wlk.*
vvv Palporum articulus 3us 2i dimidio brevior.
61. Pingrasa, *Wk.*
aa Palporum articulus 3us apice obtusus.
51. Catada, *Walk.*
m m Antennæ breves.
12. Epizenuis, *Hbn.*
00 Palporum articulus 3us fasciculatus. - 30. Libisosa, *Walk.*
..... Palporum articulus 2us non arcuatus.
o Palpi longi.
. Antennæ non setosæ nec pectinatæ.
.. Antennæ maris setosæ.
46. Dierna, *Wk.*

... Antennæ maris unipectinatæ.
45. Elyra, *Wk.*
.... Antennæ maris bipectinatæ.
32. Lamura, *Wk.*
○○ Palpi breves.
55. Berresa, *Wk.*
××× Palpi maris ascendentes fœminæ porrecti. - 14. Renia, *Guen.*
† Palpi non recurvi.
‡ Palporum articulus 2us late fimbriatus.
57. Corgatha, *Walk.*
†† Palpi recurvi. - - 34. Orthaga, *Walk.*
b. Antennæ triente basali incrassata.
i. Corpus gracile. - - - 6. Nodaria, *Guen.*
ii. Corpus robustum. - - - 44. Elusa, *Walk.*
B. Palporum articulus 3us brevissimus.
a. Antennæ maris subpectinatæ. - 42. Dragana, *Walk.*
b. Antennæ maris non pectinatæ.
i. Tibiæ posticæ non fasciculatæ.
* Alæ anticæ plaga nulla glabra. 2. Rivula, *Guen.*
** Alæ anticæ plaga glabra. - 50. Ilattia, *Walk.*
ii. Tibiæ posticæ fasciculatæ. - 37. Oglasa, *Walk.*
iii. Tibiæ fasciculatæ. - - 47. Diethusa, *Walk.*
B. Alæ posticæ apice luteæ. - - 13. Glenopteris, *Hübn.*
B. Alæ anticæ costa excavata.
A. Palpi supra thoracem reversi. - 10. Tortricodes, *Guen.*
B. Palpi supra thoracem non reversi. - 22. Ortopla, *Walk.*

Genus 1. CYCLOPTERYX.

Mas. Corpus gracile. Proboscis brevis. Palpi longissimi, graciles, lineares, rejecti, apices versus pilosi; articulus 1us erectus; 2us valde longior; 3us 2o longior. Antennæ graciles, pubescentes; articuli bisetosi. Abdomen alas posticas vix superans, fasciculis tribus parvis apicalibus, una dorsali, duabus lateralibus. Pedes graciles, vix pilosi, calcaribus longis; tibiæ anticæ dense fasciculatæ. Alæ amplæ, anticæ vix falcatæ, margine exteriore subconvexo sat obliquo.

Male. Body slender. Proboscis short. Palpi very long, slender, linear, reverted over the head to the back of the thorax,

with long hairs towards the tips; first joint erect, rising above the head; second very much longer than the first, with which it forms an abrupt angle; third longer than the second. Antennæ slender, pubescent, and with two rather long bristles on each joint, much more than half the length of the body. Abdomen hardly extending beyond the hind wings, with three small apical tufts, one dorsal, the other two lateral. Legs slender, very slightly pilose; spurs long; fore tibiæ thickly tufted. Wings ample, with markings much like those of *Palindia*. Fore wings hardly falcate; exterior border slightly convex, rather oblique.

1. CYCLOPTERYX OBSERVALIS.

Fœm. *Subviolaceo-cinerea; alæ margine exteriore fuscescente, linea marginali alba, punctis marginalibus nigricantibus, linea media arcuata obscura, punctis costalibus subapicalibus albis.*

Cyclopteryx observalis, *Guen. Delt. et Pyral.* 47, 51.

Cayenne.

2. CYCLOPTERYX PATRICIALIS.

Fœm. *Aureo-flava; thorax albo fasciatus; alæ lineis tribus albis, linea interiore costam versus flexa, exteriore angulata, submarginali subundulata; anticæ costa basali alba.*

Cyclopteryx patricialis, *Guen. Delt. et Pyral.* 47, 52.

Cayenne.

3. CYCLOPTERYX THECLALIS.

Mas. *Fuscescente-cervina; alæ linea marginali atra; anticæ lineis tribus rectis albis nigricante marginatis postice approximatis, 1a 3aque obliquis, 2a non obliqua, fasciis duabus mediis pallide purpureis indistinctis incompletis, reniformi e striga fusca, margine exteriore cinerascente; posticæ fascia marginali alba, maculis duabus posticis atris, 2a lineolas duas albas nigro marginatas emittente.*

Male. Brownish fawn-colour, cinereous beneath. Wings with a deep black marginal line. Fore wings with three straight purplish white blackish-bordered lines which converge towards the interior border; first slanting outward from the costa; second

upright; third slanting inward from the costa, less distinct and regular than the first and the second, and approaching very near the latter on the interior border; two indistinct and incomplete pale purple bands between the first and second lines; reniform mark distinguished by a brown streak; a cinereous tinge along the exterior border. Hind wings with a white band along most of the black marginal line, interrupted by two deep black spots; two short white black-bordered lines diverging from the outer spot to the disk. Wings beneath with exterior and submarginal denticulated brown lines, the latter broad and diffuse and containing a denticulated whitish line. Length of the body 5 lines; of the wings 12 lines.

a. Ega. From Mr. Bates' collection.

Genus 2. RIVULA.

Corpus sat gracile. Proboscis brevis. Palpi breves, porrecti, compressi, pilosi; articulus 3us conicus, minutus. Antennæ simplices, graciles, corporis dimidio longiores. Thorax squamosus. Abdomen alas posticas non superans. Pedes squamosi, sat validi; tibiæ posticæ intus ciliatæ, calcaribus mediis longissimis. Alæ anticæ apud costam vix convexæ, apice rectangulatæ, margine exteriore subflexo, fimbria lata.

Rivula, *Guen. Delt. et Pyral.* 47; *Herr.-Schæff.*
Metaxmeste, p., *Hübn. Verz. Schm.* 352.
Margaritia, p., *Steph.*

Body rather slender. Proboscis short. Palpi short, porrect, compressed, pilose; third joint conical, minute, not one-fourth of the length of the second. Antennæ simple, slender, more than half; the length of the body. Thorax squamous. Abdomen not extending beyond the hind wings. Legs bare, moderately stout; hind tibiæ ciliated on the inner side, with very long middle spurs. Wings moderate. Fore wings hardly convex along the costa, rectangular at the tips; exterior border very slightly bent in the middle; fringe broad.

1. Rivula sericealis.

Sordide albida, subsericea; alæ anticæ pallide lutescentes, lineis interiore et exteriore obscurioribus undulatis indistinctis, reniformi cinerea nigro notata, margine exteriore fuscescente, punctis marginalibus albis fusco notatis.

Pyralis sericealis, *Wien. Verz.* 122, 18. *Fabr. Mant. Ins.* ii. 218, 283; *Ent. Syst.* iii. 2, 226, 364. *Gmel. ed. Syst. Nat.* i. 5, 2521, 925. *Scop. Ent. Carn.* 615. *Hübn. Pyral.* pl. 7, f. 56. *Haw. Lep. Brit.* 381. *Treit. Schm.* 125.

Pyralis Lecana? *Fabr. Ent. Syst.* iii. 2, 242, 2. *Donov. Brit. Ins.* x. 87, pl. 357, f. 1. *Stew. El.* ii. 173. *Turt. Syst. Nat.* iii. 342.

Noctua munda, *Berl. Mag.* iii. 296.

Rivula sericealis, *Dup. Lép.* 145, pl. 219. *Guen. Delt. et Pyral.* 48, 53.

Metaxmeste sericealis, *Hübn. Verz. Schm.* 352, 3364.

Margaritia sericealis, *Steph. Ill. Brit. Haust.* iv. 58, 27.

Rivula limbata, *Herr.-Schæff. Eur. Schm.* vi. 447, 5.

a—h. England. From Mr. Stephens' collection.

i—m. England.

n, o. Europe. From M. Becker's collection.

p, q. Europe. From M. Heminghoffen's collection.

2. Rivula propinqualis.

Straminea; alæ anticæ lineis tribus perobliquis costam versus angulatis fasciaque abbreviata obliqua puncta-dua nigra includente fuscescentibus.

Rivula propinqualis, *Guen. Delt. et Pyral.* 49, 54.

a. Nova Scotia. From Lieut. Redman's collection.

Genus 3. SOPHRONIA.

Corpus squamosum, sat validum. Proboscis vix longa. Palpi vix arcuati, oblique ascendentes, non pilosi; articulus 3us linearis, apice acutus, 2o brevior et gracilior. Antennæ crenulatæ, subciliatæ. Abdomen alas posticas non superans. Pedes graciles, squamosi, calcaribus longis. Alæ amplæ, fimbria lata; anticæ apud costam subconvexæ, apice rectangulatæ, margine exteriore apud medium subflexo. *Mas.*—Abdomen fasciculis duobus apicalibus dorsalibus.

Sophronia, *Guen. Cat. Dup.* 211; *Delt. et Pyral.* 49; *Herr.-Schæff.*

Polypogon, p., *Schr.*

Herminia. p., *Latr.; Treit.*

Æthia, p., *Hübn. Verz. Schm.* 340.

Body squamous, moderately stout. Proboscis moderately long. Palpi hardly curved, obliquely ascending, moderately long, not pilose; third joint linear, acute at the tip, shorter and more slender than the second. Antennæ crenulated, with short ciliæ, of which two are longer on each joint. Abdomen not extending beyond the hind wings, with two apical tufts on the upper side in the male. Legs slender, squamous; spurs long. Wings ample; fringe broad. Fore wings slightly convex along the costa, rectangular at the tips; exterior border slightly bent in the middle, its hind part oblique.

1. SOPHRONIA EMORTUALIS.

Subtestaceo-cinerea; alæ linea exteriore recta obliqua albida; anticæ linea interiore subundulata non obliqua.

Pyralis emortualis, *Wien. Verz.* 2. *Hübn. Pyr.* pl. 1, f. 1. *Treit. Schm.* 5; *Supp.* 3. *Dup. Lép.* 18, pl. 211, f. 1.
Geometra olivaria, *Bork. Schm. Eur.* v. 17.
Æthia emortualis, *Hübn. Verz. Schm.* 340, 3266.
Sophronia emortualis, *Guen. Cat. Dup.* 211; *Delt. et Pyral.* 50, 55. *Herr.-Schæff. Schm. Eur.* vi. 433, 754.

a. Europe. From M. Becker's collection.

2. SOPHRONIA? CÆNEUSALIS.

Fœm. *Cinereo-cervina; palpi recurvi; femora postica sulcata; alæ anticæ reniformi lineisque interiore et exteriore obscurioribus valde indistinctis, linea submarginali testacea recta vix obliqua, fimbria lata.*

Female. Cinereous fawn-colour. Palpi rejected over the head; second joint very much curved; third lanceolate, more than half the length of the second. Legs pubescent; hind femora grooved. Fore wings with the reniform mark and the interior and exterior lines very indistinct, a little darker than the ground-colour; submarginal line testaceous, straight, nearly upright, except in front on the cinereous hind wings, where it is curved inward towards the exterior border; fringe broad; under side with the interior and exterior lines more distinct. Length of the body 5 lines; of the wings 12 lines.

a. Moreton Bay. From Mr. Diggles' collection.

3. SOPHRONIA? CAPALIS.

Fœm. *Pallide cinereo-cervina; palpi valde arcuati; alæ sat angustæ; anticæ apice subrotundatæ; reniformi lineisque subobscurioribus valde indistinctis, linea submarginali albido-cinerea recta subobliqua; posticæ albido-cinereæ.*

—— capalis, *Boisd. MSS.*

Female. Pale cinereous fawn-colour. Palpi much curved; third joint less than half the length of the second. Wings rather narrow. Fore wings somewhat rounded at the tips; reniform mark and the interior and exterior lines very indistinct, a little darker than the ground-colour; submarginal line whitish cinereous, straight, slightly oblique, not extending to the costa. Hind wings whitish cinereous, with some trace of the paler submarginal line, which has an indistinct darker border. Length of the body 4 lines; of the wings 10 lines.

a. Cape. From M. Dregé's collection.

Genus 4. SIMPLICIA.

Corpus gracile. Frons tumida. Proboscis breviuscula. Palpi graciles, valde recurvi; articulus 3us acicularis, thoracem attingens. Antennæ maris valde pubescentes aut verticillato-ciliatæ. Abdomen alas posticas non superans. Pedes graciles, non fasciculati. Alæ longiusculæ, non latæ; anticæ areola nulla, linea subterminali recta valde distincta.

Herminia, p., *Eversm.; Herr.-Schæff.*
Simplicia, *Guen. Delt. et Pyral.* 51.

Body slender. Front tumid. Proboscis rather short. Palpi slender, much recurved; second joint smoothly squamous, passing over the head; third acicular, extending to the prothorax. Antennæ of the male very pubescent, or with verticillate ciliæ. Abdomen not extending beyond the hind wings. Legs slender, not tufted. Wings rather long, not broad. Fore wings with no areolet; second and third costal branches and third superior veinlet with a common origin, very near the costa and, as it were, entangled together.

1. SIMPLICIA RECTALIS.

Testaceo-cinerea; antennæ pubescentes; alæ anticæ lineis interiore et exteriore obscurioribus indistinctis parallelis undulatis, linea submarginali pallide flava; posticæ pallidiores, linea albida.

Herminia rectalis, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1842. *Herr.-Schæff. Eur. Schm. Supp.* f. 606.

Simplicia rectalis, *Guen. Delt. et Pyral.* 52, 56.

East Europe.

2. SIMPLICIA INFLEXALIS.

Fœm. S. rectali *obscurior; alæ anticæ lineis interiore minus parallelis magis contiguis, submarginali magis concisa, strigis marginalibus fuscis; palpi thoracem medium attingentes; antennæ subglabræ.*

Simplicia inflexalis, *Guen. Delt. et Pyral.* 52, 57.

Isle Bourbon.

3. SIMPLICIA INARCUALIS.

Mas. *Testaceo-cinerea; antennæ verticillatæ; alæ anticæ costa lineis lituraque reniformi ochraceo-flavis, lineis interiore et exteriore subarcuatis, submarginali recta; posticæ pallidæ margine exteriore obscuro.*

Simplicia inarcualis, *Guen. Delt. et Pyral.* 52, 58.

Abyssinia.

Genus 5. HERMINIA.

Corpus gracile. Proboscis brevis. Palpi longi, graciles, porrecti, subascendentes, non pilosi; articulus 3us 2i dimidio longior. Antennæ graciles, maris crenulatæ. Abdomen lævе, alas posticas non superans. Pedes graciles; tibiæ anticæ nonnunquam dilatatæ et fasciculatæ. Alæ latæ pulverulentæ, concolores, lineis continuis, fimbria lata; anticæ apice subrotundatæ.

Herminia, *Latr. Hist. Nat. Cr. et Ins.* iii. 413; *Treit.*; *Dup.*; *Steph.*; *Herr.-Schæff.*; *Guen.*

Polypogon, *Schr.*

Pechipogon, Paracolax et Macrochile, p., *Hübn. Verz. Schm.* 344, 345.

Body slender. Proboscis short. Palpi long, slender, porrect or obliquely ascending, not pilose; third joint a little more than half the length of the second, with which it occasionally forms an angle. Antennæ slender, much more than half the length of the body, crenulate in the male. Abdomen smooth, not extending beyond the hind wings, with a small apical tuft in the male. Legs slender; spurs long; fore tibiæ in some species dilated and tufted with long hairs. Wings broad, dull, pulverulent, alike in colour and with continuous lines; fringe broad, thick. Fore wings with the apical angle slightly rounded; exterior border slightly convex and oblique.

Europe.

Group 1.

Palpi recurvi. Antennæ maris subcrenulatæ. Alæ lineis distinctis.

Palpi recurved. Antennæ of the male slightly crenulate. Wings with distinct lines.

1. Herminia derivalis.

Straminea aut pallide ochracea; alæ lineis interiore et exteriore fuscescentibus; anticæ linea exteriore angulata, litura discali fuscescente; posticæ linea interiore indistincta.

Pyralis derivalis, *Hübn. Eur. Schm. Pyral.* pl. 3, f. 19.
Crambus derivatus, *Haw. Lep. Brit.* 369.
Herminia derivalis, *Treit. Schm.* 7; *Suppl.* 3. *Dup. Lép.* 21, pl. 211, f. 2. *Herr.-Schæff. Eur. Schm.* vi. 383, 596, f. 609. *Guen. Delt. et Pyral.* 55, 59.
Paracolax derivalis, *Hübn. Verz. Schm.* 344, 3298. *Steph. Ill. Brit. Haust.* iv. 16, pl. 33, f. 2. *Wood, Ill.* f. 765.
Pyralis glaucinalis, *Wien. Verz.* 120.
Crambus emortuatus, *Haw. Lep. Brit.* 369.
Æhia emortualis, *Steph. Ill. Brit. Haust.* iv. 18. *Wood, Ill.* f. 768.

a, *b*. England. From Mr. Stephens' collection.
c—*g*. England.
h, *i*. Europe. From M. Becker's collection.

Group 2.

Palpi ascendentes, angulati. Antennæ maris crenulatæ, subnodosæ. Alæ lineis diffusis.

Palpi ascending; third joint forming an angle with the second. Antennæ of the male crenulate, slightly flattened and thickened towards the base. Wings with diffuse lines.

2. Herminia barbalis.

Cinerea; alæ lineis tribus diffusis fuscescentibus, interiore et exteriore undulatis, submarginali recta; posticæ pallidæ.

——— ———, *Albin, Ins.* pl. 74, f. e—h. *Harr. Ex.* 25, pl. 6, f. 2.

Phalæna-Geometra barbalis, *Linn. Syst. Nat.* ii. 881, 329; *Faun. Suec.* 1345. *Gmel. ed. Syst. Nat.* i. 5, 2519, 329. *Clerck, Icon.* pl. 5, f. 3. *Scop. Ent. Carn.* 605. *Wien. Verz.* 120, 9.

Geometra strigilata, *Clerck, Icon.* pl. 5, f. 2.

Phalæna barbalis, *Fabr. Sp. Ins.* ii. 271, 171; *Mant. Ins.* ii. 216, 268; *Ent. Syst.* iii. 2, 219, 338.

Crambus barbatus, *Haw. Lep. Brit.* 368.

Pyralis barbalis, *Knock, Ins.* ii. 79, pl. 5.

Pyralis pectitalis, *Hübn. Eur. Schm. Pyral.* pl. 19, f. 122.

Herminia barbalis, *Treit. Schm.* 15; *Suppl.* 5. *Dup. Lép.* 26, pl. 211, f. 25. *Herr.-Schæff. Eur. Schm.* vi. 383, 599. *Guen. Delt. et Pyral.* 56, 61.

Pechipogon barbalis, *Steph. Ill. Brit. Haust.* iv. 15. *Wood, Ilb.* f. 764.

Paracolax barbalis, *Hübn. Verz. Schm.* 344, 3295.

a—j England. From Mr. Stephens' collection.
k—n. England.
o—r. Europe. From M. Becker's collection.

Group 3.

Maris antennæ subnodosæ. Alæ anticæ lineis interiore et submarginali rectis aut subrectis, linea exteriore undulata subangulata. Pedes antici fasciculati.

Antennæ of the male slightly nodose before the middle. Fore wings with the interior and submarginal lines straight or nearly so;

exterior line undulating and slightly angular. Fore knees with a tuft of very long hairs; fore tibiæ densely tufted.

3. Herminia tarsicrinalis.

Cinereo-testacea, umbra media et linea undulata interiore subferrugineis.

Herminia tarsicrinalis, *Knock, Ins.* i. 75, pl. 4. *Treit. Schm.* 13; *Suppl.* 4. *Frey. Beitr.* pl. 12. *Herr.-Schæff. Schm. Eur.* vi. 384, 600, f. 611. *Guen. Delt. et Pyral.* 57, 63.

France. Austria. Hungary.

4. Herminia tarsipennalis.

Cinereo-cervina; abdomen cinereum; alæ lineis tribus coneisis fuscis, interiore et exteriore undalatis, submarginali obscuriore recta obliqua costam attingente; anticæ litura discali fusca; posticæ cinereæ.

Herminia tarsipennalis, *Treit. Suppl.* 4. *Herr.-Schæff. Schm. Eur.* vi. 384, f. 604—610. *Guen. Delt. et Pyral.* 58, 64.
Pyralis tarsicrinalis, *Hübn. Eur. Schm. Pyral.* pl. 1, f. 5.
Crambus tarsicrinatus, *Haw. Lep. Brit.* 369.
Polypogon tarsicrinalis, *Steph. Ill. Brit. Haust.* iv. 16, 395. *Wood Ill.* f. 767.

a—f. England. From Mr. Stephens' collection.
g—i. England.

5. Herminia grisealis.

Cinereo-cervina; abdomen cinereum; alæ anticæ lineis tribus fuscis, interiore recta, exteriore undulata, submarginali obscuriore subarcuata apicem attingente; anticæ litura discali fusca; posticæ cinereæ, lineis indistinctis.

Pyralis grisealis, *Wien. Verz.* 120. *Hübn. Eur. Schm. Pyral.* pl. 1, f. 4.
Herminia grisealis, *Treit. Schm.* 9. *Dup. Lép.* 23, pl. 211, f. 4. *Herr.-Schæff. Schm. Eur.* vi. 383, 598. *Guen. Delt. et Pyral.* 59, 68.
Phalæna nemoralis, *Fabr. Ent. Syst.* iii. 222, 348.

Paracolax grisealis, *Hübn. Verz. Schm.* 244, 3297.
Crambus nemoratus, *Haw. Lep. Brit.* 370.
Paracolax nemoralis, *Steph. Ill. Brit. Haust.* vi. 16. *Wood, Ill.* f. 766.

a, *b*. England. From Mr. Foxcroft's collection.
c, *d*. England. From Mr. Stevens' collection.
e—*p*. England. From Mr. Stephens' collection.
q—*s*. England.
t. Europe. From M. Becker's collection.

Group 4.

Palporum articulus 3us compressus, squamosus. Antennæ maris nodo rhomboidali dilatato. Tibiæ anticæ crista squamosa munitæ.

Third joint of the palpi as squamous and as much compressed as the second knot of the antennæ, rhomboidal and much enlarged. Fore tibiæ dilated and with a pencil of yellow hairs as usual, and also with a crest of squamous hairs.

6. Herminia tarsiplumalis.

Violaceo-cinerea, linea undulata vix pallidiore valde tenui recta utrinque fuliginoso adumbrata.

Pyralis tarsiplumalis, *Hübn. Eur. Schm. Pyral.* f. 125.
Paracolax tarsiplumalis, *Hübn. Verz. Schm.* 244, 3296.
Herminia tarsiplumalis, *Treit. Schm.* 19. *Dup. Lép.* 31, pl. 211, f. 6. *Herr.-Schæff. Schm. Eur.* vi. 384, 602. *Guen. Delt. et Pyral.* 60, 71.
Pyralis ventilabris? *Fabr. Ent. Syst.* iii. 2, 220, 340. *Gmel. ed Syst. Nat.* i. 5, 2519, 913.

France. Hungary. Dalmatia.

7. Herminia tarsicristalis.

Violaceo-cinerea ; ala anticæ lineis ambabus acute dentatis et reniformi annuliformi acute fuscis, linea undulata fracta.

Herminia tarsicristalis, *Herr.-Schæff. Schm. Eur.* vi. 384, 603, f. 603. *Guen. Delt. et Pyral.* 61, 72.

Dalmatia.

Group 5.

Mas. Palpi longi, graciles, oblique ascendentes, subfimbriati; articulus 3us lanceolatus, 2i dimidio brevior. Antennæ pectinatæ, ante medium subnodosæ.

Male. Palpi long, slender, obliquely ascending, slightly fringed; third joint lanceolate, a little less than half the length of the second. Antennæ moderately pectinated, gradually incrassated to one-third of the length.

8. HERMINIA CRINALIS.

Violaceo-cinerea; alæ anticæ orbiculari et reniformi fuscis, linea undata subsinuata acute albido-flava basim versus late obscurius adumbrata.

Herminia crinalis, *Treit. Schm.* 17. *Dup. Lep.* 34, pl. 211, f. 7. *Herr.-Schæff. Schm. Eur.* vi. 385, 604. *Guen. Delt. et Pyral.* 61, 73.

Pyralis barbalis, *Hübn. Eur. Schm. Pyral.* f. 18.

South Europe.

a. Italy. From Dr. Leach's collection.

9. HERMINIA GRYPHALIS.

Aurantiaco-ochracea; alæ anticæ linea undulata subbisinuata.

Herminia gryphalis, *Herr.-Schæff. Schm. Eur.* vi. 385, 605, f. 601, 602. *Guen. Delt. et Pyral.* 62, 74.

Hungary.

10. HERMINIA TENTACULALIS.

Testaceo-cinerea; alæ anticæ linea undata acute fusca limbum versus vix pallidius cincta.

——— ———, *Deg. Ins.* ii. 358, pl. 5, f. 1—3.

Phalæna Pyralis tentaculalis, *Linn. Syst. Nat.* 230; *Faun. Suec.* 1344. *Fabr. Sp. Ins.* ii. 271, 172; *Mant. Ins.* ii. 217, 269; *Ent. Syst.* iii. 2, 220, 340. *Wien. Verz.* 119, 2. *Gmel. ed. Syst. Nat.* i. 5, 2519.

Pyralis tentaculalis, *Hübn. Eur. Schm. Pyral.* f. 6.

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Macrochilo tentaculalis, *Hübn. Verz. Schm.* 345, 3301.
Herminia tentaculalis, *Treit. Schm.* 11. *Dup. Lép.* 29, pl. 211, f. 3. *Herr.-Schæff. Schm. Eur.* vi. 385, 606, f. 607, 608. *Guen. Delt. et Pyral.* 62, 75.

Europe.

Group 6.

Palpi recti, porrecti. Maris antennæ pectinatæ. Alæ lineis incompletis.

Palpi porrect, straight. Antennæ of the male distinctly pectinated. Wings without complete lines.

11. Herminia cribralis.

Cinereo-albida; alæ anticæ apud marginem exteriorem obscuriores, puncto discali nigro, lineis duabus exterioribus obliquis incompletis e punctulis nigricantibus.

Pyralis cribralis, *Hübn. Pyral.* pl. 1, f. 2.
Macrochilo cribralis, *Hübn. Verz. Schm.* 345, 3304.
Herminia cribralis, *Treit. Schm.* 4. *Dup. Lép.* 296, pl. 230, f. 1. *Eversm. Faun. Volg. Ural.* 445. *Herr.-Schæff. Schm. Eur.* vi. 386, 609. *Guen. Delt. et Pyral.* 62, 76.
Macrochila cribralis, *Steph. Ill. Brit. Haust.* iv. 14.

a. England. From Mr. Foxcroft's collection.
b—n. England. From Mr. Stephens' collection.

North America.

Group 1.

Antennæ maris subnodosæ, setis longiusculis. Tibiæ anticæ fasciculatæ. Alæ anticæ areola discali, margine exteriore valde rotundato.

Palpi like those of the second European group, but a little shorter. Antennæ of the male very slightly nodose; setæ rather long. Fore tibiæ tufted. Fore wings with an areolet, exterior border much rounded.

12. HERMINIA MORBIDALIS.

Pallidissime cinerea; alæ anticæ lineis lituraque reniformi testaceo-cinereis, lineis interiore et exteriore undulatis subdenticulatis subparallelis, submarginali e guttis obscurioribus pallide cuneato notatis, punctis marginalibus fuscis; posticæ pallidiores, lineis indistinctis.

Herminia morbidalis, *Guen. Delt. et Pyral.* 56, 60.

a—d. United States. Presented by E. Doubleday, Esq.
e. Nova Scotia. From Lieut. Redman's collection.

Group 2.

Like the third European group.

13. HERMINIA PEDIPILALIS.

Var.? *Pallidissime testaceo-cinerea, pulverosa; alæ anticæ lineis obscurioribus, interiore subarcuata, exteriore subundulata antice angulata aut incurvata, submarginali subrecta costam versus obsoleta extus pallidiore, marginali fusca; tibiæ anticæ pilis nigricantibus.*

Herminia pedipilalis, *Guen. Delt. et Pyral.* 57, 62.

Var.? Very pale cinereous, pulverulent, with a very slight testaceous tinge. Fore wings with the three lines darker; interior line slightly curved; exterior line slightly undulating, forming opposite the reniform mark an angle or a curve; submarginal line almost straight, obsolete towards the costa, with an indistinct exterior pale border, which is more conspicuous in the hardly paler hind wings; marginal line brown. Fore tibiæ with short blackish hairs. Length of the body 4—5 lines; of the wings 10—12 lines.

a. United States. Presented by E. Doubleday, Esq.

14. HERMINIA CRURALIS.

Pallidissime cervina, subtus cinerascens; palpi sat arcuati; tibiæ anticæ maris incrassatæ fasciculis flavescentibus longissimis; alæ fusco conspersæ, lineis tribus fuscis, lunulis marginalibus nigricantibus; anticæ lineis interiore et submarginali subrectis, exteriore flexa, orbiculari punctiformi et reniformis margine incompleto nigricantibus.

Herminia cruralis, *Guen. Delt. et Pyral.* 58, 65.

a—o. United States. Presented by E. Doubleday, Esq.

15. Herminia Jacchusalis.

Fœm. *Pallidissime testaceo-cinerea, pulverulenta; alæ anticæ lineis tribus obscurioribus, interiore sat flexa, exteriore subdenticulata antice arcuata, submarginali recta antice distincta; posticæ linea submarginali bene determinata.*

Female. Pulverulent, very pale cinereous, with a very slight testaceous tinge. Palpi like those of the preceding species. Fore wings with the three lines darker; interior line more bent than that of the preceding species; exterior line with slight denticulations at intervals along its whole length, much curved outward opposite the reniform mark; submarginal line straight, not less distinct towards the costa than elsewhere, much more distinct hindward on the hind wings than that of the preceding species. Length of the body 4½—5 lines; of the wings 11—12 lines.

a, b. United States. Presented by E. Doubleday, Esq.
c, d. Nova Scotia. From Lieut. Redman's collection.
e. ——— ?

16. Herminia Protumnusalis.

Fœm. *Pallide cervina, subtus pallide cinerea fusco conspersa; palpi subarcuati ascendentes; articulus 3us 2i dimidio non longior; alæ anticæ sat angustæ, lineis interiore et exteriore fuscescentibus indistinctis incompletis, exteriore antice angulata, linea submarginali albida obliqua subrecta, reniformi fusca parva.*

Female. Pale fawn-colour, pale cinereous and minutely brown-speckled beneath. Palpi slightly curved, ascending over the vertex, but not beyond; third joint about half the length of the second. Fore wings rather narrow; interior and exterior lines brownish, indistinct and incomplete; exterior line forming an acute angle opposite the reniform mark, which is brown and small; submarginal line whitish, oblique, nearly straight, apparent also on the hind wings; marginal lunules blackish. Length of the body 4 lines; of the wings 11 lines.

a. United States. Presented by E. Doubleday, Esq.

17. Herminia Eumelusalis.

Mas. *Fuscescente-cinerea; palpi oblique ascendentes, subangulati; antennæ pectinatæ; tibiæ anticæ pilis nigricantibus; alæ anticæ apice subrotundatæ, lineis quatuor nigricantibus undulatis denticulatis apud costam dilatatis, linea media fusco nebulosa, submarginali magis undulata intus diffusa extus pallida.* Fœm.—*Antennæ simplices; alæ lineis minus bene determinatis.*

Male. Brownish cinereous, rather darker beneath. Palpi obliquely ascending; joints almost straight; third about half the length of the second, with which it forms a slight angle. Antennæ pectinated; the branches towards the tips dwindling to setæ. Fore tibiæ tufted with blackish hairs. Fore wings with the tips slightly rounded; four lines blackish, undulating, denticulated, dilated by the costa; middle line largely clouded with dark brown; submarginal line more deeply undulating than the others, diffuse along its inner side and with a pale outer border; marginal points blackish. Hind wings not or hardly paler than the fore wings; exterior and submarginal lines distinct; submarginal line with minute denticulations and with a whitish outer border; marginal line brown. *Female.*—Antennæ simple. Lines of the wings less distinct than those of the male; reniform mark sometimes black and distinct. Length of the body 4—5 lines; of the wings 10—13 lines.

a—h. United States. Presented by E. Doubleday, Esq.

18. Herminia Cloniasalis.

Mas. *Cinerea; palpi supra verticem ascendentes, articulo 3o subarcuato antice piloso; antennæ setis longiusculis; genua antica pilis longis ochraceis; alæ sat angustæ, vix purpurascentes; anticæ nigro subconspersæ, lineis fuscis, interiore et exteriore indistinctis denticulatis, submarginali subundulata extus pallida.* Fœm.—*Alæ lineis minus distinctis.*

Male. Cinereous, paler beneath, except towards the exterior borders of the wings. Palpi ascending, rising above the vertex; second joint slightly curved, pilose in front; third straight, lanceolate, much shorter than the second. Antennæ not nodose; setæ rather long. Fore knees with a tuft of long ochraceous hairs. Wings rather narrow, with an indistinct purplish tinge. Fore

wings minutely speckled with black; lines brown; interior and exterior lines indistinct, denticulated; submarginal line very slightly undulating, with a well-defined pale outer border, apparent also like the exterior one on the hind wings; marginal points black; under side with distinct lines. *Female.*—Lines less distinct, except the submarginal one on the fore wings; this line more undulating than in the male. Length of the body 5—5½ lines; of the wings 12—13 lines.

Var. β. Larger. Fore wings with the exterior line more macular.

a—f. United States. Presented by E. Doubleday, Esq.
g. ———?

19. HERMINIA PYRAMUSALIS.

Mas. *Pallide subpurpurascente-cinerea; palpi ascendentes, fimbriati; antennæ setis longiusculis; alæ anticæ lineis fuscescentibus, interiore et submarginali latis diffusis, hac lineolam undulatam pallide cineream includente, media et exteriore angustis undulatis, reniformi e guttis duabus nigricantibus.*

Male. Pale cinereous, with a very pale lilac tinge. Palpi ascending, fringed with hairs in front; third joint lanceolate, about half the length of the second. Antennæ with rather long bristles. Fore wings with the lines brownish; interior and submarginal lines broad, diffuse, the latter including a pale cinereous undulating line; middle and exterior lines more slender, undulating, irregular; reniform mark represented by two blackish dots, which are occasionally connected; marginal festoon blackish, continued on the hind wings and beneath, as are also the other lines, but less distinctly. Length of the body 4 lines; of the wings 10 lines.

a—d. United States. Presented by E. Doubleday, Esq.

Group 3.

Pedes antici non fasciculati. Maris antennæ apices versus nodosæ et fasciculatæ, apice convolutæ.

The species of this group have the characters of the typical *Herminiæ*, with the exception of the fore legs, which are not tufted, and of the antennæ of the male, which towards their tips are nodose and furnished with a tuft, the apical part being convoluted. In

this character they are alike to *Renia*, from which they may be distinguished by their slender body, and by the palpi of the female, which do not differ from those of the male.

20. Herminia Phalerosalis.

Mas et fœm. *Pallide cervina; palpi longi, subascendentes, supra subfimbriati; antennæ pubescentes, setosæ; alæ lineis interiore et submarginali testaceis, illa recta non obliqua nigricante extus marginata, linea submarginali obliqua antice arcuata, reniformi e striga testacea punctisque duobus nigris.*

Male and female. Pale fawn-colour. Palpi long, slightly ascending, slightly fringed above; second joint slightly curved in the male, straight in the female; third joint half the length of the second in the male, shorter in the female. Antennæ pubescent and with the usual setæ. Wings with the interior and submarginal lines testaceous; interior line straight, upright, with a blackish outer border, indistinct on the hind wings; submarginal line more distant than usual from the exterior border, oblique, with a curve towards the costa, accompanied by a blackish inner line; marginal festoon black. Fore wings with the reniform mark represented by a testaceous streak, having a black point at each end. Length of the body 3½—4 lines; of the wings 10—12 lines.

a, *b*. United States. Presented by E. Doubleday, Esq.
c. ——— ?

21. Herminia Salusalis.

Mas et fœm. *Pallide cervina nigro conspersa; alæ anticæ lineis interiore et exteriore obsoletis, linea media recta obliqua nigricante, submarginali e guttis nonnullis nigris pallido notatis, reniformi e macula testacea nigro notata.* Mas.—*Palpi recti, validi.* Fœm.—*Palpi arcuati, tenuiores.*

Male and female. Pale fawn-colour, speckled with black. Palpi of the male straight, stout, thickly clothed, obliquely ascending; second joint tufted above; third obtuse at the tip, not more than one-third of the length of the second. Palpi of the female longer and more slender; second joint curved; third lanceolate, slender, full one-third of the length of the second. Antennæ of the male with very short setæ. Fore wings with the interior and exterior lines obsolete; middle line straight, oblique, blackish,

almost obsolete in front; submarginal line indicated towards the costa by a few black pale-marked dots; marginal points black; reniform mark represented by a testaceous black-marked spot. Length of the body 5—6 lines; of the wings 12—14 lines.

a—d. United States. Presented by E. Doubleday, Esq.

22. Herminia Heliusalis.

Mas et fœm. *Pallide cinereo-fusca; palpi obscure fusci, oblique ascendentes, articulo 2o subarcuato supra fasciculato; alæ anticæ fusco conspersæ, linea interiore subobsoleta, exteriore obsoleta, submarginali pallida undulata fusco late marginata.* Mas.—*Antennæ setis longiusculis.*

Male and female. Pale cinereous-brown. Abdomen, hind wings and under side more cinereous. Palpi dark brown, obliquely ascending; second joint slightly curved, tufted above; third lanceolate, less than half the length of the second. Antennæ of the male with rather long setæ. Fore wings of the male thickly speckled with dark brown; interior line almost obsolete; exterior line obsolete; submarginal line pale, undulating, largely bordered with brown, rather remote from the exterior border; marginal points black, less distinct in the hind wings, as is also the submarginal line. Length of the body 5 lines; of the wings 11—12 lines.

a, b. United States. Presented by E. Doubleday, Esq.

23. Herminia Clitosalis.

Mas. *Cinereo-fusca; palpi subarcuati, subascendentes, articulo 2o fimbriato, 3o vix acuto; antennæ setis longiusculis; alæ conspersæ, lineis interiore, exteriore et submarginali testaceis obliquis subundulatis; anticæ reniformi testacea puncta dua nigra includente.*

Male. Cinereous-brown. Palpi slightly curved and ascending; second joint fringed above; third rather obtuse at the tip, less than half the length of the second. Antennæ with rather long bristles. Wings minutely speckled; interior, exterior and submarginal lines testaceous, oblique, slightly undulating, almost obsolete in the hind wings; marginal points black. Fore wings with the reniform mark testaceous, containing two blackish points. Length of the body 4½—5 lines; of the wings 10—12 lines.

a—d. United States. Presented by E. Doubleday, Esq.
e. Nova Scotia. From Lieut. Redman's collection.

24. Herminia Thraxalis.

Mas. *Pallidissime cervina, sat valida; antennæ robustæ; alæ anticæ fascia media fusca latissima extus denticulata orbicularem et reniformem includente, linea submarginali lata fusca; anticæ reniformi puncta dua nigra includente.*

Male. Very pale fawn-colour, stouter than most other species. Abdomen and under side more cinereous. Antennæ stout. Fore wings with a very broad brown middle band, which is denticulated along the outer side, and contains the orbicular and reniform marks; these are of the ground-colour, and the latter contains two black elongated points; submarginal line broad, brown, containing an undulating line of the ground-colour; marginal points black, blackish and less concise in the hind wings, where the lines are less distinct, but more regular. Length of the body 6 lines; of the wings 15 lines.

a. ——— ?

West Indies.

Group 1.

Statura parva. Conspectus Noctuiformis.

Size small. Markings of the fore wings like those of the *Noctuites*. This species may form a new genus.

25. Herminia? Thaumasalis.

Fœm. *Subtestaceo-cinerea; palpi compressi, oblique ascendentes, subfimbriati; alæ apud angulum interiorem nigricantes; anticæ fusco conspersæ, lineis fuscis valde undulatis pallido submarginalis, reniformi pallida angusta extus excavata fusco notata; posticæ lineis exteriore et submarginali subtus distinctis denticulatis.*

Female. Cinereous, with a slight testaceous tinge. Palpi compressed, obliquely ascending, slightly fringed; third joint more than half the length of the second. Wings blackish about the interior angle. Fore wings with numerous brown speckles, which are confluent towards the exterior border; basal, interior, exterior and submarginal lines brown, very undulating, slightly pale-bordered; reniform mark pale, narrow, excavated on the outer side, with a

brown disk. Hind wings darker towards the exterior border; exterior and submarginal lines distinct and denticulated on the under side. Length of the body 3 lines; of the wings 8 lines.

a. St. Domingo. From Mr. Tweedie's collection.

South America.

Group 1.

Like the third North American group.

26. Herminia Rhetusalis.

Mas. *Fusca, sat valida; thorax nigricans; palpi validi, recti, oblique ascendentes, articulo 3o albido-cinereo; tibiæ anticæ fasciculatæ; tarsi medii testacei; alæ anticæ subpurpurascentes, lineis nigris denticulatis, submarginali testacea denticulata.* Var. β.—*Major; tibiæ anticæ testaceæ; alæ anticæ lineis valde indistinctis, fascia pallida undulata.*

Male. Brown, comparatively stout. Head, palpi and thorax mostly black. Palpi stout, straight, obliquely ascending; third joint whitish cinereous, less than half the length of the second. Antennæ with rather long setæ, stout and straight to three-fourths of the length, where they are incrassated and tufted, and from thence to the tips much convoluted. Fore tibiæ tufted. Middle tarsi testaceous. Fore wings with a slight purplish tinge; interior and exterior lines black, denticulated; submarginal line testaceous, denticulated, indistinctly apparent on the hind wings, as is also the exterior one; reniform mark black, with a testaceous border. *Var.* β.—Larger. Fore tibiæ testaceous. Fore wings with the lines very indistinct; a pale undulating band between the exterior line and the submarginal one. This may be a distinct species. Length of the body 7—8 lines; of the wings 16—18 lines.

a. Ega. From Mr. Bates' collection.
b. Venezuela. From Mr. Dyson's collection.

Group 2.

Antennæ articulo 3o fimbriato.

Antennæ with the third joint fringed.

27. Herminia Nisosalis.

Fœm. *Nigricante-fusca, subtus albo subconspersa; palpi erecti, subfimbriati, articulo 2o subarcuato; alæ longiusculæ, lineis quatuor undulatis denticulatis indistinctis nigricantibus, submarginali tenui albo notata, reniformi e puncto albo.*

Female. Blackish brown; under side a little paler, slightly and minutely speckled with white. Palpi vertical, slightly fringed; second joint slightly curved, rather slender; third lanceolate, very slender, about half the length of the second. Antennæ minutely setose. Wings rather long, with four undulating denticulated indistinct blackish lines, which are almost obsolete on the hind wings; submarginal line slightly accompanied by white marks; marginal points black. Fore wings with the reniform mark represented by a white point in the middle line. Length of the body 6 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

Group 3.

Somewhat resembling the fifth European group.

28. Herminia Spiosalis.

Mas. *Fuscescente-cinerea, gracilis; palpi recti, graciles, fimbriati, oblique ascendentes, valde compressi; antennæ setosæ, submoniliformes, fasciculo subapicali; tibiæ anticæ brevissimæ, subfasciculatæ; alæ longiusculæ, lineis fuscescentibus undulatis diffusis indistinctis, submarginali pallida, orbiculari et reniformi nigricantibus.*

Male. Brownish cinereous, slender. Palpi straight, slender, fringed, obliquely ascending, much compressed; third joint lanceolate, very acute, not more than one-third of the length of the second. Antennæ with two minute tufts and with two curved rather long setæ on each joint; a small tuft at five-sixths of the length. Fore tibiæ very short, slightly tufted. Wings rather long; lines brownish, undulating, diffuse, indistinct; submarginal line undulating, paler than the ground-colour; marginal lunules black; orbicular and reniform marks blackish. Length of the body 6 lines; of the wings 16 lines.

a, b. Venezuela. From Mr. Dyson's collection.

Africa.

Group 1.

Alæ vitta communi recta obliqua.

Wings with a straight oblique stripe extending from the tips of the fore wings to the interior border of the hind wings.

29. Herminia Mascusalis.

Fœm. *Cinerea; palpi longi, graciles, ascendentes, subfimbriati; alæ fusco conspersæ, subtus fusco conspersæ; vitta recta obliqua fusca, spatio exteriore obscuriore; anticæ reniformi fusca testaceo punctata.*

Female. Cinereous. Palpi long, slender, ascending, slightly fringed; second joint slightly curved; third hardly curved, more slender and a little shorter than the second. Wings speckled with brown, with a brown straight oblique stripe, which extends from the tips of the fore wings to the middle of the exterior border of the hind wings, accompanied by an interior approximate parallel brown line; exterior space darker cinereous and more closely speckled with brown; marginal points black. Fore wings with the reniform mark brown, and containing a testaceous point; under side thickly speckled with brown; lines obsolete. Length of the body 4¼ lines; of the wings 12 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

Group ——?

30. Herminia? Heliriusalis.

Fœm. *Luteo-testacea; palpi oblique ascendentes, articulo 2o subfimbriato; alæ nigro aut fusco conspersæ, linea exteriore fusca obliqua vix undulata, punctis marginalibus nigricantibus; anticæ orbiculari e gutta fusca.*

Female. Luteous-testaceous. Palpi obliquely ascending; second joint slightly fringed; third almost bare, rather shorter than the second. Wings minutely speckled with black or brown; exterior line brown, oblique, hardly undulating; some traces of the other lines; marginal points blackish. Fore wings with the orbicu-

lar mark represented by a brown dot. Length of the body 5 lines; of the wings 12 lines.

a. South Africa. Presented by Dr. A. Smith.

Asia.

Group 1.

Like the third European group, but some of the species included in it hardly belong to this genus.

31. Herminia? robustalis.

Fusco-cinerea, robusta, testaceo suffusa; palpi usque ad thoracem rejecti, articulo 3o fimbriato; antennæ basim versus fasciculatæ; tibiæ anticæ fasciculo longissimo densissimo; alæ linea submarginali pallidiore subarcuata obscuro marginata, exteriore e punctis nonnullis, guttis marginalibus nigris; anticæ macula discali nigra.

Herminia robustalis, *Guen. Delt. et Pyral.* 58, 66.

Hindostan.

32. Herminia? limbosalis.

Fœm. *Flavescente-testacea, robusta; palpi fimbriati, vix arcuati; alæ linea albida undulata extus diffusa intus nigro-fusco late marginata, punctis marginalibus trigonis nigris; anticæ apice fuscæ, linea exteriore incompleta, submarginali valde sinuata, orbiculari et reniformi nigricantibus; anticæ obscuriores, linea submarginali fere recta.*

Herminia? limbosalis, *Guen. Delt. et Pyral.* 59, 67.

Hindostan?

33. Herminia mistacalis.

Testacea; palpi arcuati, non fasciculati; alæ linea submarginali pallida subrecta intus nigro-fusco late umbrata, lineis interiore et exteriore obscuris denticulatis vix conspicuis, lunulis marginalibus nigris, linea submarginali lituraque discali subtus nigro-fuscis.

Herminia mistacalis, *Guen. Delt. et Pyral.* 60, 69.
Hindostan.

34. Herminia fractalis.

Mas. *Fusco-cinerea, subviolaceo suffusa; palpi longissimi, usque ad thoracem recurvi; tibiæ anticæ fasciculo lanuginoso flavo; alæ anticæ oblongæ, lineis distinctis, linea submarginali concisa biangulata antice umbrata postice pallido marginata, umbra media recta obscura; posticæ lineis duabus, submarginali magis determinata.*

Herminia fractalis, *Guen. Delt. et Pyral.* 60, 70.
Hindostan.

Group 2.

Mas. Antennæ pectinatæ, aut setis longis incurvis.

Male. Antennæ pectinated, or with long curved setæ.

35. Herminia Nothusalis.

Mas. *Pallide schistaceo-cinerea, subtus obscurior; palporum articulus 2us subfimbriatus, valde arcuatus; antennæ setosæ non longæ; alæ anticæ subpurpurascente suffusæ, lineis tribus fuscis rectis obliquis, punctis marginalibus nigris; posticæ pallidiores, lineis duabus indistinctis.*

Male. Pale slaty-cinereous, darker cinereous beneath. Second joint of the palpi much curved, slightly fringed; third much more slender than the second and full half its length. Antennæ little more than half the length of the body, with long curved setæ. Fore wings with a slight lilac tinge, and with three straight oblique brown lines; exterior line more remote from the interior one than from the submarginal one; the latter rather nearer the exterior line hindward than in front; marginal points black. Hind wings paler, with two indistinct lines. Length of the body 3 lines; of the wings 8 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

36. Herminia Silvialis.

Mas. *Cinereo-fusca; palpi articulo 2o arcuato, 3o recto; antennæ pectinatæ; alæ lineis nigricantibus; anticæ lineis interiore et submarginali subobliquis bene determinatis, hac subarcuata, illa recta, linea exteriore tenui undulata; posticæ linea exteriore recta, submarginali postice angulata.*

Male. Structure of *H. Nothusalis*. Brownish cinereous. Palpi vertical, slightly fringed; second joint curved; third straight, rather shorter than the second. Antennæ pectinated. Wings with blackish lines, and with a discal lunule. Fore wings with the basal half line distinct; interior and submarginal lines strongly marked, slightly oblique, the former straight, the latter slightly curved; exterior line slender, deeply undulating. Hind wings with the interior line obsolete; exterior line straight, more distinct on the under side; submarginal line obsolete in front, forming an angle by the interior border. Length of the body 3½ lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

37. Herminia? Phineusalis.

Mas. *Testacea; palpi subarcuati, articulo 3o gracillimo apud medium fasciculato; antennæ simplices; alæ fusco conspersæ, apud marginem exteriorem saturatiores, linea exteriore fusca indistincta valde denticulata, submarginali pallida recta obliqua, lunulis marginalibus nigris, reniformi e punctis tribus nigricantibus.*

Male. Testaceous. Palpi ascending, slightly curved; third joint very slender, with a tuft in the middle, a little shorter than the second. Antennæ simple. Wings speckled with brown speckles, which become more numerous towards the exterior border, where they are confluent; exterior line brown, indistinct, much denticulated; submarginal line pale, straight, oblique; marginal lunules black; reniform and corresponding mark in the hind wings distinguished by three blackish points. Length of the body 3½ lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

38. Herminia Oileusalis.

Mas. *Fuscescente-cinerea; alæ fusco conspersæ, lineis fuscis indistinctis valde denticulatis, linea media postice magis diffusa, lunulis marginalibus fuscis, linea marginali tenui pallida; anticæ reniformi valde obliqua.*

Male. Like *H. Phineusalis* in structure. Cinereous, with a slight brownish tinge. Wings with minute brown speckles; lines brown, much denticulated, not distinct; reniform mark very oblique, the middle line behind it more diffuse than the others; marginal lunules brown, accompanied by a slender pale line. Length of the body 3½ lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

39. Herminia? Tagusalis.

Fuscescente-cinerea; palpi longi, subarcuati, articulo 3o fimbriato breviusculo; antennæ simplices; alæ apud marginem exteriorem fuscescentes, lineis fuscis subrectis indistinctis, fimbria lata; anticæ subfalcatæ, linea interiore distincta, submarginali pallida undulata, margine exteriore sat convexo.

Brownish cinereous. Palpi long, nearly vertical, slightly curved; third joint fringed, hardly more than half the length of the second. Antennæ simple. Wings brownish towards the exterior border; lines brown, nearly straight, not distinct, except the interior one of the fore wings; fringe broad. Fore wings slightly falcate; exterior border rather convex; submarginal line pale, undulating; reniform mark almost obsolete. Length of the body 3½ lines; of the wings 9 lines.

a. ——— ?

Genus 6. NODARIA.

Corpus gracile. Palpi ascendentes, valde arcuati, glabro squamosi, articulo 3o valde acuto. Antennæ maris incurvæ, extus pubescentes, abrupte tenuiores articulisque bisetosis. Abdomen depressum, læve, abrupte conicum. Pedes validi; antici tibiis robustis villosis fasciculatis, tarsis brevissimis. Alæ rotundatæ, fimbriis latis; anticæ validæ, squamosæ, basi angustæ, lineis denticulatis, areola coarctata; posticæ discolores, lituris nullis.

Nodaria, *Guen. Delt. et Pyral.* 63.
Herminia, p., *Herr.-Schæff.*

Body slender. Palpi much curved, smoothly squamous, ascending above the head; third joint very acute. Antennæ of the male hardly pubescent and slightly increasing in thickness for one-third of the length, thence to the tips abruptly slender, pubescent and with two bristles on each joint. Abdomen depressed, smooth, abruptly conical. Legs stout; fore tibiæ robust, villose, tufted; fore tarsi very short. Wings rounded; fringe broad. Fore wings stout, squamous, narrow at the base; lines denticulated, broken; areolet much straitened, and as if obliterated. Hind wings unlike the fore wings in colour, with no lines.

Europe.

1. Nodaria hispanalis.

Flavescente-murina; alæ anticæ lineis tribus bene determinatis, interiore et exteriore nigricantibus, hac arcuata denticulata, illa informi, linea submarginali e punctis flavescente-albis intus subumbratis, strigis marginalibus nigris, reniformi nigra subovali bene determinata; posticæ pallidiores.

Nodaria hispanalis, *Guen. Delt. et Pyral.* 64, 77.

Spain.

2. Nodaria æthiopalis.

N. hispanali *affinis, pallidior, ferreo-cinerea, orbiculari et reniformi concoloribus obscuro marginatis, linea submarginali e punctis pallidis nigricante umbratis; posticæ pallidiores.*

Herminia æthiopialis, *Herr.-Schæff. Eur. Schm.* 386, f. 612.
Nodaria æthiopialis, *Guen. Delt. et Pyral.* 65, 79.

Turkey.

3. Nodaria nodosalis.

N. hispanali *affinis, pallidior, magis rufescens; alæ anticæ linea marginali pallida, lineis interiore et exteriore minus distinctis; posticæ magis flavescentes.*

Herminia nodosalis, *Herr.-Schæff. Eur. Schm.* 385, f. 605.
Nodaria nodosalis, *Guen. Delt. et Pyral.* 65, 80.

Sicily.

Asia.

4. Nodaria externalis.

Mas. N. hispanali *affinis, minor; alæ anticæ reniformi plus angustata, linea submarginali e punctis vix conspicuis; posticæ dimidio interiore pallidissimo fere albido, lituris subtus minus determinatis, abdomine breviore.*

Phalæna cornicalis? *Fabr. Ent. Syst.* iii. 2, 229, 374.
Nodaria externalis, *Guen. Delt. et Pyral.* 64, 78.

Coromandel.

Genus 7. HYDRILLODES.

Corpus læve, sat gracile. Palpi valde arcuati, graciles, supra caput reversi, articulo 2o ensiformi, 3o aciculari. Antennæ tenues, moniliformes, pubescentes, subtilissime ciliatæ. Abdomen alas posticas superans. Pedes non fasciculati; postici longissimi, calcaribus longis. Alæ anticæ angustæ, elongatæ, validæ, apice subrotundatæ, margine exteriore subconvexo vix obliquo, areola nulla; posticæ discolores, lituris supra obsoletis subtus bene determinatis.

Hydrillodes, *Guen. Delt. et Pyral.* 65.

Body smooth, rather slender. Palpi slender, much curved, ascending and resting on the head; second joint ensiform; third long, acicular. Antennæ slender, moniliform, pubescent, very finely ciliated. Abdomen extending beyond the hind wings. Legs not tufted; hind legs very long and with long spurs. Wings rounded; fringe broad. Fore wings narrow, elongated, stout; exterior border hardly oblique; no areolet. Hind wings unlike the fore wings in colour; their markings obsolete above, distinct beneath.

1. Hydrillodes lentalis.

Mas et fœm. *Saturate cinereo-fusca; palpi usque ad thoracem rejecti; alæ anticæ dimidio interiore testaceo-fusco nebulis cinereis, lineis interiore et exteriore denticulatis, submarginali pallida incompleta, strigis marginalibus nigris; posticæ sordide cinereæ, lunula, linea margineque obscurioribus, subtus albidæ.*

Hydrillodes lentalis, *Guen. Delt. et Pyral.* 66, 81.

Hindostan.

2. HYDRILLODES ULIGINOSALIS.

Mas et fœm. H. lentali *affinis, major; palpi breviores; alæ anticæ lineis vagis, submarginali pallidiore; posticæ obscuriores.*

Hydrillodes uliginosalis, *Guen. Delt. et Pyral.* 66, 82.

Cape.

Genus 8. BLEPTINA.

Fœm. Corpus sat gracile. Proboscis brevis. Palpi ascendentes, compressi, sat longi; articulus 2us arcuatus, pubescens; 3us gracilior, brevior, vix arcuatus, quasi securiformis. Antennæ graciles, subsetosæ, laminis squamosis. Abdomen alas posticas non superans. Pedes graciles, subnudi, calcaribus longis. Alæ longiusculæ, sat angustæ; anticæ angulo apicali bene determinato, margine exteriore subconvexo subobliquo, angulo interiore rotundato.

Bleptina, *Guen. Delt. et Pyral.* 66.

Female. Body rather slender. Proboscis short. Palpi vertical, compressed, moderately long; second rather stout, curved, pubescent; third more slender, hardly curved, shorter than the second, apparently securiform at the tip, from its short hairs being obliquely truncated. Antennæ slender, more than half the length of the body, with very minute setæ and with squamous laminæ. Abdomen not extending beyond the hind wings. Legs slender, almost bare; spurs long. Wings rather long and narrow. Fore wings with the apical angle sharply defined with a slight inclination to the subfalcate form; exterior border slightly convex and oblique; interior angle rounded.

Type *B. confusalis.*

North America.

1. BLEPTINA CARADRINALIS.

Testaceo-cinerea, rufescente tincta; palpi rufescentes, articulo 3o tenui recto aciculari; tibiæ anticæ longæ fasciculatæ; metatarsi antici longissimi, crassi, albidi, sericei; alæ anticæ nigro conspersæ, lineis interiore et exteriore denticulatis, umbra mediana, linea submarginali pallida concisa rufescente marginata, reniformi rufescente vaga squamis exterioribus nigris.

Bleptina caradrinalis, *Guen. Delt. et Pyral.* 67, 84.
North America.

West Indies.

A. Alæ anticæ fusco aut testaceo-cinereæ.
A. Alæ anticæ lineis interiore et exteriore pallidis.
hydrillalis, *Guen.*
B. Alæ anticæ lineis interiore et exteriore obscuris.
a. Alæ anticæ reniformi nigro notata. - Flesalis, *Walk.*
b. Alæ anticæ reniformi nigro non notata. complectalis, *Guen.*
B. Alæ anticæ cervinæ. - - - - - Ulricusalis, *Walk.*
C. Alæ anticæ canæ aut pallide cinereæ.
A. Alæ anticæ linea submarginali bene determinata.
Acastusalis, *Walk.*
B. Alæ anticæ linea submarginali indistincta. Pithosalis, *Walk.*
D. Alæ albido-testaceæ.
A. Alæ anticæ fascia fusca. - - - - Priassalis, *Walk.*
B. Alæ anticæ fascia nulla fusca. - Menalcalis, *Walk.*

2. Bleptina hydrillalis.

Fœm. *Testaceo-cinerascens; palpi articulo 3o cristato apice aciculari; abdomen obscurum, incisuris pallidioribus; alæ anticæ violaceo subtinctæ, lineis interiore et exteriore pallidis obscuro vaye marginatis, 1a recta obliqua, 2a angulata, linea submarginali interrupta indistincta nigricante marginata, umbra mediana, reniformi pallida; posticæ albidæ, margine tato nigricante.*

Bleptina hydrillodes, *Guen. Delt. et Pyral.* 67, 85.
Haiti.

3. Bleptina complectalis.

Fœm *Fusco-cinerascens, testaceo suffusa; alæ anticæ lineis interiore et exteriore obscurioribus angustis denticulatis, submarginali distincta albida cuneata, reniformi concisa alba squamis rufescentibus, orbiculari punctiformi rufescente-alba; posticæ pallidiores, lineis duabus, 1a obscuriore, 2a pallidiore.*

Bleptina complectalis, *Guen. Delt. et Pyral.* 68, 86,
Haiti.

4. Bleptina Flesalis.

Mas et fœm. *Fuscescente-cinerea ; palpi longi, ascendentes ; alæ submargaritaceæ, lineis denticulatis, interiore et exteriore nigricantibus, submarginali albido-cinerea ; anticæ reniformi testacea angusta nigro subinterlineata.* Mas.—*Palpi fimbriati, articulo 2o subarcuato, 3o suberecto.* Fœm.—*Palpi articulo 2o arcuato, 3o rejecto.*

Male and female. Brownish cinereous, mostly cinereous beneath. Palpi long, fringed in the male, rising considerably above the head; second joint vertical, slightly curved in the male, more curved in the female; third joint shorter than the second, nearly vertical in the male, but more inclined hindward in the female. Wings with a slight pearly tinge; lines denticulated; interior and exterior lines blackish, the former obsolete in the hind wings; submarginal line whitish cinereous; marginal festoon black or blackish brown. Fore wings with the reniform mark testaceous, narrow, slightly interlined with black. Length of the body 5 lines; of the wings 11—12 lines.

a—e. St. Domingo. From Mr. Tweedie's collection.

5. Bleptina Ulricusalis.

Fœm. *Cervina ; palpi valde arcuati ; alæ anticæ lineis distinctis pallidioribus nigro-fusco marginatis, interiore recta, media fusca undulata indistincta, exteriore subundulata costam versus abrupte flexa, submarginali undulata denticulata, orbiculari et reniformi pallidis ; posticæ cinereæ, litura discali lineaque fuscis, fimbria albida.*

Female. Fawn-colour, cinereous beneath. Palpi much curved, extending over the back of the head. Fore wings with the lines distinct, paler than the ground-colour, but bordered with dark brown; interior line straight; middle line brown, undulating, indistinct; exterior line slightly undulating, abruptly inclined inward towards the costa; submarginal line undulating and denticulated; marginal points blackish; orbicular and reniform marks pale, the former punctiform, the latter very small and including a black point. Hind wings cinereous, darker along the exterior border; discal mark and discal line brown; fringe whitish. Length of the body 4 lines; of the wings 11 lines.

a, b. St. Domingo. From Mr. Tweedie's collection.

6. Bleptina Acastusalis.

Fœm. *Pallide cinerea; palpi subarcuati; alæ anticæ glaucescentes, rufescente subtinctæ, nigro subconspersæ, lituris costalibus nigricantibus, linea interiore obsoleta, exteriore nigricante undulata indistincta, submarginali testacea bene determinata ferrugineo marginata apud medium arcuata; orbiculari testacea punctiformi ferrugineo marginata, reniformi e punctis duobus ferrugineis testaceo marginatis.*

Female. Pale cinereous. Palpi slightly curved. Fore wings tinged with glaucous, with a slight reddish tinge, slightly speckled with black, with three or four slight blackish marks along the costa; interior line obsolete; exterior line blackish, slight, undulating, indistinct, touching the reniform mark; submarginal line testaceous, very distinct, bordered with ferruginous and accompanied by some black marks, much curved in the middle and slightly undulating from thence hindward; marginal points black; orbicular mark testaceous, punctiform, with a ferruginous border; reniform represented by two ferruginous points, with testaceous borders. Hind wings paler, brownish along the exterior border and with two brownish lines. Length of the body 4 lines; of the wings 10 lines.

a. St. Domingo. From Mr. Tweedie's collection.

7. Bleptina Pithosalis.

Mas. *Cana; palpi supra caput arcuati; alæ anticæ subglaucescentes, nigro subconspersæ, gattis costalibus nigris, lineis interiore et exteriore subobsoletis, submarginali albida indistincta denticulata costam versus nigro marginata, orbiculari et reniformi testaceis, hac magna ferrugineo umbrata nigro marginata extus excavata.*

Male. Hoary. Palpi curved over the head. Antennæ with two minute setæ on each joint. Wings slightly and minutely speckled with black; marginal points black. Fore wings with a slight glaucous tinge; some black dots along the costa; lines almost obsolete, except the submarginal one, which is whitish, indistinct, denticulated, bordered with black towards the costa; orbicular mark small, testaceous; reniform large, testaceous, much shaded with ferruginous, bordered with black, much excavated on

the outer side. Hind wings with a brownish tinge towards the exterior border. Length of the body 3½ lines; of the wings 8 lines.

a, *b*. St. Domingo. From Mr. Tweedie's collection.

8. Bleptina Menalcasalis.

Mas. *Pallide testacea; palpi ascendentes, valde arcuati, articulo 3o cristato; alæ anticæ nigro subconspersæ; lineis nigris undulatis, exteriore e guttis nigris, submarginali pallida denticulata fusco marginata, reniformi pallida angusta indistincta fusco submarginata punctum nigrum includente; posticæ litura, linea margineque fuscescentibus.*

Male. Pale testaceous. Abdomen, hind wings and under side more cinereous. Palpi much curved, passing over the head; third joint with a tuft of black hairs. Fore wings slightly speckled with black; basal, interior and middle lines black, undulating; exterior line formed of black dots; submarginal line pale, denticulated, diffusedly bordered with brown; marginal points black; orbicular mark obsolete; reniform pale, narrow, indistinct, slightly bordered with brown, containing a black point. Hind wings brownish towards the exterior border and with a brownish discal line, which, like the discal mark, is most distinct on the under side. Length of the body 5 lines; of the wings 11 lines.

a. St. Domingo. From Mr. Tweedie's collection.

9. Bleptina Priassalis.

Fœm. *Albido-testacea; palpi supra caput arcuati, articulo 3o vix fasciculato; alæ anticæ nigro subconspersæ, lineis interiore et exteriore obsoletis, fascia media fusca subobliqua reniformem includente, linea submarginali pallida undulata fusco marginata, orbiculari et reniformi atris, hac subquadrata extus concava; posticæ pallidiores, lunula subtus fusca.*

Female. Whitish testaceous, more cinereous beneath. Palpi curved over the head; third joint very slightly tufted. Fore wings slightly speckled with black; interior and exterior lines obsolete; a brown slightly oblique middle band including the reniform mark; submarginal line pale, undulating, bordered with brown, and having a brown spot on the middle of its outer side; marginal points brown; orbicular and reniform marks deep black, the former small,

the latter subquadrate, concave on the outer side. Hind wings paler, with a brown lunule on the under side, where the lines may be indistinctly traced. Length of the body 4 lines; of the wings 10 lines.

a. St. Domingo. From Mr. Tweedie's collection.

South America.

A. Alæ anticæ violaceo tinctæ.
  A. Alæ anticæ reniformi nigra. - - nigrirenalis, *Guen*.
  B. Alæ anticæ reniformi pallida. - - Philetesalis, *Walk*.
B. Alæ anticæ violaceo-albo variæ. - - - Syrnialis, *Guen*.
C. Alæ anticæ violaceo non tinctæ.
  A. Alæ amplæ.
    A. Alæ anticæ reniformi bene determinata.
      a. Alæ anticæ reniformi pallida. - Virbiusalis, *Walk*.
      b. Alæ anticæ reniformi nigra. - - - confusalis, *Guen*.
    B. Alæ anticæ reniformi indistincta.
      a. Alæ anticæ apud marginem exteriorem pallidiores. Menippusalis, *Walk*.
      b. Alæ anticæ apud marginem exteriorem non pallidiores. Pentheusalis, *Walk*.
  B. Alæ non amplæ.
    A. Alæ anticæ cervinæ. - - - Thisbesalis, *Walk*.
    B. Alæ anticæ obscure fuscæ. - - Phocionalis, *Walk*.

10. Bleptina confusalis.

Var.? *Obscure cinereo-fusca; alæ anticæ conferte nigro conspersæ, lineis undulatis nigricantibus subobsoletis, submarginali e punctis albidis conspicua, punctis marginalibus nigris, orbiculari albida punctiformi, reniformi atra lunari optime determinata; posticæ pallidiores, fimbria canescente.*

Bleptina confusalis, *Guen. Delt. et Pyral.* 67, 83.

a. Venezuela. From Mr. Dyson's collection.

Var. β. Fœm. *Cinereo-fusca; palpi arcuati, ascendentes, articuli 3i fasciculo minimo; alæ longiusculæ; anticæ lineis undulatis denticulatis obscurioribus indistinctis, linea media diffusa subrecta, orbiculari albida punctiformi, reniformi nigra angusta extus excavata ferrugineo interlineata; posticæ lineis supra indistinctis subtus conspicuis.*

Female. This species resembles some of the *Hypenæ* even more than the preceding one, but the structure of the palpi sufficiently distinguishes it. Cinereous-brown. Abdomen, hind wings and under side more cinereous. Palpi curved, ascending; tuft of the third joint very minute. Wings rather long. Fore wings with the lines undulating, denticulated, a little darker than the ground-colour, very indistinct; marginal lunules blackish, like those of the hind wings, in which the lines are indistinct above but apparent beneath, where there is a black discal lunule; middle line diffuse, nearly straight; orbicular mark forming a whitish point; reniform black, narrow, much excavated exteriorly, interlined with ferruginous. Length of the body 5½—6 lines; of the wings 13—14 lines.

Brazil.

b. Venezuela. From Mr. Dyson's collection.

11. Bleptina nigrirenalis.

Fœm. *Nigricante-cinerea; alæ anticæ violaceo tinctæ, lineis subobsoletis, linea submarginali distincta flexuosa denticulata albo-fuscescente, margine exteriore pallido, fimbria fuscescente, orbiculari nigra minima, reniformi magna atra; posticæ linea submarginali pallida tremula antice obsoleta.*

Bleptina nigrirenalis, *Guen. Delt. et Pyral.* 68, 87.

Brazil.

12. Bleptina Syrnialis.

Fœm. *Fusca; palpi longi, subarcuati, articuli 3i crista distincta; alæ anticæ violaceo-albo variæ, linea interiore recta non obliqua intus rufescente extus nigro diffuse marginata, exteriore violaceo-alba valde flexuosa, fascia adhuc exteriore rufescente-ferruginea punctis nigris, submarginali antice dilatata, orbiculari et reniformi magnis distinctis approximatis e spatio nigro divisis, reniformi atra carneo interlineata, orbiculari carnea; posticæ dimidio interiore nigricante-cinereo.*

Bleptina Syrnialis, *Guen. Delt. et Pyral.* 68, 88.

Brazil.

13. Bleptina Menippusalis.

Fœm. *Fusca; palpi ascendentes, subarcuati, intus albido-testacei; alæ amplæ; anticæ nigro nebulosæ, lineis interiore et exteriore obsoletis, submarginali nigra subundulata, margine exteriore canescente, orbiculari e gutta nigra, reniformi subobsoleta; posticæ fuscescente-cinereæ, lineis duabus subtus lituraque nigra.*

Female. Brown. Abdomen, hind wings and under side brownish cinereous. Palpi slightly curved, ascending rather high above the head, whitish testaceous on the inner side. Wings ample. Fore wings thickly mottled with black; lines obsolete, except the submarginal line, which is black, slightly undulating; space between this line and the exterior border with a hoary tinge; marginal lunules brown; marginal line pale; orbicular mark forming a minute black dot; reniform almost obsolete. Hind wings with two lines on the under side, where there is also a black discal mark. Length of the body 7 lines; of the wings 18 lines.

a. Venezuela. From Mr. Dyson's collection.

14. Bleptina Virbiusalis.

Fœm. *Nigricante-cinerea; palpi subarcuati, fasciculo articuli 3i nigro; alæ anticæ latiusculæ, subpurpurascentes, apice subrotundatæ; costa margineque exteriore subconvexis, lineis nigris diffusis undulatis denticulatis cinereo ex parte marginatis, orbiculari et reniformi cervinis nigro marginatis.*

Female. Blackish cinereous. Abdomen, under side and hind wings cinereous. Palpi slightly curved; third joint with a distinct black tuft. Fore wings rather broad, with a purplish tinge, somewhat convex along the costa and along the exterior border, slightly rounded at the tips; lines black, diffuse, undulating, denticulated, partly with cinereous borders; marginal lunules black, large, bordered with cinereous; orbicular mark forming a fawn-coloured black-bordered dot; reniform large, fawn-coloured, concave on the outer side, bordered with black and containing a black point in front. Hind wings with the discal mark and the discal line distinct on the under side. Length of the body 6 lines; of the wings 15 lines.

a. Venezuela. From Mr. Dyson's collection.

15. Bleptina Philetesalis.

Fœm. *Obscure cinerea; palpi longi, valde arcuati, articulo 3o peracuto crista nigra; alæ anticæ subpurpurascentes, lineis pallidioribus nigro marginatis, interiore recta angulata, exteriore vix undulata, submarginali valde undulata, orbiculari testacea punctiformi, reniformi albido-testacea subquadrata.*

Female. Dark cinereous. Abdomen, under side and hind wings paler, brownish cinereous. Palpi long, much curved, ascending high above the head; third joint with a very acute tip, and with a slight black tuft. Fore wings with a slight purplish tinge; lines rather paler, bordered on one side with black; basal half line somewhat curved; interior line straight, forming an angle near the costa; exterior line hardly undulating; submarginal line very undulating; marginal points black; orbicular mark forming a very minute testaceous point; reniform whitish testaceous, subquadrate. Hind wings with the basal half somewhat paler, almost whitish beneath, where there is a distinct discal line; fringe whitish. Length of the body 4½ lines; of the wings 11 lines.

a. Honduras. From Mr. Dyson's collection.

16. Bleptina Thisbesalis.

Fœm. *Cervina; palpi subarcuati, articulo 3o vix fasciculato; alæ anticæ dimidio exteriore purpurascente-cinereo, lineis nigris incompletis undulatis denticulatis, submarginali testacea biangulata, orbiculari e gutta nigra, reniformi testacea perangusta nigro marginata; posticæ cinereæ lineis indistinctis.*

Female. Fawn-colour. Abdomen, under side and hind wings cinereous. Palpi curved slightly; third joint hardly tufted. Fore wings with a purplish cinereous tinge on the exterior half; lines black; interior and exterior lines incomplete, undulating, denticulated; middle line forming a blackish shade which includes the reniform mark; exterior line having a row of black points between it and the submarginal line, which is testaceous, straight in front, forming two slight angles hindward; marginal points black; orbicular mark represented by an irregular black dot; reniform testaceous, very narrow, bordered with black. Hind wings with indistinct lines. Length of the body 4 lines; of the wings 10 lines.

a. Venezuela. From Mr. Dyson's collection.

17. Bleptina Phocionalis.

Fœm. *Obscure fusca; palpi supra caput reflexi, articulo 3o arcuato; alæ anticæ basi pallide fuscæ, lineis pallide fuscis denticulatis nigro ex parte marginatis, orbiculari et reniformi fuscis nigro marginatis, hac subrotunda, illa parva, punctis marginalibus nigris; posticæ fuscescente-cinereæ.*

Female. Dark brown. Palpi reflexed almost horizontally over the head; third joint curved. Abdomen, hind wings and under side brownish cinereous. Fore wings pale brown at the base; lines pale brown, denticulated, partly bordered with black; orbicular and reniform marks brown, bordered with black, the former small, the latter nearly round; marginal points black, like those of the hind wings, in which the lines are almost obsolete above. Length of the body 3½ lines; of the wings 10 lines.

a. Venezuela. From Mr. Dyson's collection.

18. Bleptina Pentheusalis.

Fœm. *Nigricante-fusca; palpi ascendentes, subarcuati, articulo 3o fasciculato; tarsorum articuli apice albi; alæ amplæ, lineis nigricantibus undulatis denticulatis indistinctis, interiore et media subobsoletis, submarginali e atomis albis, orbiculari et reniformi obsoletis.*

Female. Blackish brown. Palpi ascending, slightly curved; third joint with a distinct tuft, bare and slender towards the acute tip. Antennæ rather long and slender, with two minute setæ on each joint. Joints of the tarsi and spurs of the tibiæ with white tips. Wings ample; lines blackish, undulating, denticulated, indistinct; interior and middle lines almost obsolete; submarginal line distinguished by white flecks; orbicular and reniform marks obsolete. Hind wings with lines like those of the fore wings. This species has some resemblance to the *Hypenæ*. Length of the body 6 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

Country unknown.

19. BLEPTINA? MADOPALIS.

Pallide cinerea; alæ anticæ apice acutæ, margine exteriore flexo, dimidio interiore subflavescente, linea intermedia duplicata nigra, lineis aliis indistinctis, reniformi e puncto nigro; posticæ lineis cinereis antice obsoletis.

Bleptina? madopalis, *Guen. Delt. et Pyral.* 69, 89.

20. BLEPTINA? MŒNASALIS.

Fœm. *Nigricante-cinerea; palpi validi, pilosi, longiusculi, subarcuati; alæ amplæ; antice subfalcatæ, lineis nigris undulatis denticulatis, marginali intus alba, orbiculari et reniformi subobsoletis; posticæ lineis subtus conspicuis.*

Female. Blackish cinereous. Abdomen, hind wings and under side cinereous. Palpi stout, rather long, pilose, slightly curved; third joint slightly tufted, except at the tip. Antennæ rather stout, with two setæ on each joint. Wings ample. Fore wings nearly falcate; lines black, undulating, denticulated; marginal line bordered on the inner side with white, apparent also on the hind wings, where the lines are obsolete above, but visible beneath; orbicular and reniform marks almost obsolete. This species hardly belongs to *Bleptina*, but its separation as a new genus must be reserved until more specimens of it are discovered. Length of the body 7 lines; of the wings 16 lines.

a. ———? Presented by E. Doubleday, Esq.

Genus 9. ARISTARIA.

Mas. Palpi longi; articuli distinctissimi; 1us et 2us porrecti, pilis squamosis fasciculati, quasi securiformes; 3us squamosus, 2o angulum fere rectum fingens, pilis sericeis longissimis instructus. Antennæ longæ, graciles, apud medium fasciculatæ. Pedes longi, validi, non fasciculati. Alæ latæ, subdentatæ; anticæ validæ, apice acutæ, areola nulla; posticæ subangulatæ, lituris vix ullis.

Aristaria, *Guen. Delt. et Pyral.* 70.

Male. Palpi long; joints very distinct; first and second porrect, with apical tufts of squamous hairs, and thereby apparently

securiform. Antennæ long, slender, almost bare to the middle, where there is a pencil of long hairs above, and a truncated brush of tufted hairs beneath. Legs long, stout, not tufted. Wings broad, subdentate. Fore wings thick, acute at the tips, with no areolet. Hind wings slightly angular, with hardly any markings.

1. ARISTARIA CELLULALIS.

Mas. *Nigricante-cinerea; palpi, thoracis latera pedesque ochraceo-flava; alæ anticæ costa ochracea, lineis discalibus vagis undulatis nigricantibus, linea submarginali albida vix undulata, linea submarginali concisa albida vix undulata, punctis marginalibus trigonis nigricantibus, macula marginali magna cyanescente-alba; posticæ sordide cinereæ, subtus ochraceo nebulosæ maculis duabus discalibus nigris.*

Aristaria cellulalis, *Guen. Delt. et Pyral.* 70, 90.

Brazil.

Genus 10. TORTRICODES.

Corpus sat gracile. Palpi longi, flexi, supra thoracem reversi; articulus 2us gracilis, non villosus, vix squamosus; 3us longus, fasciculatus. Antennæ simplices, apud medium subtumidæ; articuli exteriores bisetosi. Pedes longi, robusti; tibiæ anticæ lamina e pilis squamosis. Alæ validæ; anticæ costa inæquali apud medium pilis densis cristata, margine exteriore inciso.

Tortricodes, *Guen. Delt. et Pyral.* 71.

Body rather slender. Palpi long, reverted on the thorax, diverging; second joint slender, not villose, hardly squamous, forming a band with the third, which is also long and tufted. Antennæ simple, slightly thickened about the middle; joints from thence to the tips with two setæ on each. Legs long, stout; fore tibiæ with a flat appendage of squamous hairs. Wings thick. Fore wings with the costa excavated on each side of a thick crest of hairs in the middle; exterior border notched.

1. TORTRICODES PTEROPHORALIS.

Mas. *Nigro-cinerea; palpi graciles, arcuati; antennæ vix incrassatæ; pedes albo annulati; alæ anticæ violaceo tinctæ, lineis obscurioribus, interiore arcuata extus nebulosa, exteriore*

et umbra media parallelis valde sinuatis, submarginali indistincta angulosa, orbiculari et reniformi pallidis, hac lunari, illa punctiformi; posticæ subtus lunula lineisque duabus flexuosis obscuris.

Tortricodes pterophoralis, *Guen. Delt. et Pyral.* 72, 91.

Brazil.

2. TORTRICODES ALUCITALIS.

Mas. T. pterophorali *affinis, minor; palpi longiores, articulo 2o capiteque non contiguis; alæ anticæ crista costali breviore minus triangulari, apice oblique truncatæ; antennæ apud medium magis incrassatæ.*

Tortricodes alucitalis, *Guen. Delt. et Pyral.* 73, 92.

Brazil.

3. TORTRICODES ORNEODALIS.

Mas. T. pterophorali *valde affinis; alæ angustiores; anticæ crista costali minus determinata, linea interiore vaga vix arcuata, umbra media latiore, linea exteriore, postica minus sinuata, maculis discalibus lineaque submarginali obsoletis.*

Tortricodes orneodalis, *Guen. Delt. et Pyral.* 73, 93.

Guadeloupe.

4. TORTRICODES SUERALIS.

Mas. *Nigricante-cinerea; palpi longissimi; articulo 2o et 3o angulum fere rectum fingentibus, hoc longo fasciculato, illo recto; abdomen dilatatum; alæ anticæ trigonæ, violaceo tinctæ, crista costali brevi, vitta costali apice ochraceo-alba basi pallide violaceo-cinerea, plaga postica basali trigona nigra, maculis discalibus nullis, lineis incompletis.*

Tortricodes sueralis, *Guen. Delt. et Pyral.* 73, 94.

Brazil.

Genus 11. SITOPHORA.

Palpi longissimi, flexi, supra thoracem reversi, apices versus deflexi; articulus 2us fere erectus. Antennæ pubescentes, non fasciculatæ, articulis bisetosis. Pedes non fasciculati. Alæ validæ, integræ, rotundatæ; anticæ apice obtusæ, pilis apud costæ medium densis reversis munitæ, lineis maculisque distinctis, areola nulla.

Sitophora, *Guen. Delt. et Pyral.* 74.

Male. Palpi very long, squamous; second joint almost vertical; third forming an angle with the second above the thorax, and thus leaving a large intervening space, beyond which it rests on the thorax and diverges. Antennæ pubescent, not tufted, with two setæ on each joint. Legs not tufted. Wings stout, entire, rounded. Fore wings obtuse at the tips, having along the middle of the costa a thick row of decumbent hairs; lines and spots distinct; no areolet.

1. SITOPHORA VESICULARIS.

Mas. *Nigro-fusca, fuliginosa; alæ anticæ oblongæ, lineis saturatioribus denticulatis extus pallido marginatis, reniformi squamis albis strigata, linea submarginali indistincta squamis albis indicata; posticæ fuliginoso fuscæ, subtus pallide cinereæ lunula discali lineaque valde dentata nigris, linea submarginali pallida.*

Sitophora vesicularis, *Guen. Delt. et Pyral.* 75, 95.

Brazil.

2. SITOPHORA? PENICILLALIS.

Mas. *Obscure cervina; palpi longissimi, pilosissimi; alæ fasciis obliquis diffusis in posticis latioribus cinereis, anticæ ocello discali cinereo.*

Corynitis penicillalis (Pyralis difformis, Idia fallax), *Geyer, Zutr. Samml. Exot. Schm.* 26, 354, f. 707, 708.

Rio Janeiro.

Genus 12. EPIZEUXIS.

Corpus sat validum. Palpi ascendentes, recurvi, graciles, squamosi. Antennæ breves. Abdomen alas posticas non superans. Pedes longi; antici simplices. Alæ integræ, validæ, rotundatæ, squamosæ, fimbriis latis; anticæ apice obtusæ, margine exteriore vix obliquo, lineis maculisque plurimis distinctis, areola rhomboidali. *Mas.*—Antennæ ciliis fasciculatis.

Epizeuxis, *Hübn. Verz. Schm.* 346.
Pyralis, p., *Treit.*
Herminia, p., *Dup.*
Helia, *Guen. Dup. Cat.* 214; *Delt. et Pyral.* 75; *Herr.-Schæff.*

Body rather stout. Palpi ascending, recurved, slender, squamous. Antennæ short, furnished in the male with little tufts of ciliæ, of which two on each joint are longer than the others. Abdomen not extending beyond the hind wings. Legs long; fore pair not tufted. Wings entire, stout, rounded, squamous; fringe broad. Fore wings obtuse at the tips; exterior border hardly oblique; all the lines and spots distinct; areolet rhomboidal.

1. Epizeuxis calvarialis.

Nigro-cinerea; alæ anticæ lineis undatis albidis, orbiculari et reniformi fulvis.

Noctua calvaria, *Wien. Verz.* 72, 7. *Fabr. Ent. Syst.* iii. 2, 117. 353. *Esp. Schm.* iii. pl. 178, f. 2, 3.
Pyralis prothyralis, *DeVill. Linn. Ent.* 823, pl. 6, f. 27.
Pyralis calvarialis, *Hübn. Pyral.* f. 23. *Treit. Schm.* 41.
Epizeuxis calvarialis, *Hübn. Verz. Schm.* 346, 3312.
Herminia calvarialis, *Dup. Lép.* 37, pl. 212, f. 1. *Frey. Beitr.* pl. 12, f. 1.
Helia calvarialis, *Herr.-Schæff. Eur. Schm.* vi. 430, 741. *Guen, Delt. et Pyral.* 77, 99.

Europe.

North America.

A. Alæ violaceo non tinctæ.
A. Alæ albo non variæ.
a. Alæ anticæ maculis nullis costalibus nigris. phæalis, *Guen.*
b. Alæ anticæ maculis costalibus nigris. lituralis, *Hübn.*
B. Alæ albo variæ. americalis, *Guen.*
B. Alæ violaceo tinctæ. æmulalis, *Hübn.*

2. Epizeuxis phæalis.

Saturate fumoso-cinerea; palpi longissimi; articulus 3us longus, acutus, 2o non brevior: alæ anticæ nitentes, lineis tribus transversis parallelis vagis nebulosis undatis denticulatis sordide flavescente-albis, reniformi sat magna intersecta; posticæ pallidiores, lineis duabus vagis saturatioribus.

Helia phæalis, *Guen. Delt. et Pyral.* 76, 96.

North America.

3. Epizeuxis americalis.

Mas. *Pallide fusco-cinerea, ochraceo suffusa; palporum articulus 3us squamosus, breviusculus; alæ albo variæ; anticæ lineis tribus bene determinatis dentatis apud costam dilatatis, submarginali intus nigro umbrata, reniformi ochraceo-fusca angusta ochraceo marginata; posticæ lineis tribus nigris albo marginatis.*

Helia americalis, *Guen. Delt. et Pyral.* 78, 100.
North America.

4. Epizeuxis æmulalis.

Fœm. *Testaceo-cinerea; palporum articulus 3us breviusculus squamosus; alæ violaceo sublinctæ, strigis marginalibus fere contiguis nigris; anticæ lineis duabus interiore et exteriore nigris subparallelis denticulatis pallido-extus marginatis, submarginali pallida, orbiculari et reniformi ochraceo-flavis posticè nigro marginatis, hac bipunctata; posticæ apud costam pallidæ, litura discali lineisque tribus nigricantibus.*

Idiodiosa æmula, *Hübn. Exot. Schm.* iii. 1, c, a.
Epizeuxis æmulalis, *Hübn. Verz. Schm.* 346, 3313.
Helia æmulalis, *Guen. Delt. et Pyral.* 78, 101.
North America.

5. Epizeuxis lituralis.

Cinerea; alæ anticæ maculis costalibus nigris, lineæ exteriore e punctis elongatis nigris, submarginali albida denticulata, lunulis marginalibus et reniformi angusta nigris; posticæ, pallidiores, lineis duabus fuscis.

Epizeuxis lituralis, *Hübn. Zutr.* f. 19, 20; *Verz. Schm.* 346, 3314
Helia lituralis, *Guen. Delt. et Pyral.* 79, 102.
Georgia. From Mr. Abbot's collection.

Australasia.

6. Epizeuxis lubricalis.

Mas. *Obscure fusca*, E. phæali, *simillima, paullo major; alæ lineis magis concisis et determinatis; anticæ reniformi lineisque tribus angulosis cervinis; posticæ pallidiores, litura discali linea margineque lato nigricantibus.*

Epizeuxis lubricalis, *Geyer, Zutr. Samml. Exot. Schm.* 19, 333 f. 665, 666.

Helia lubricalis, *Guen. Delt. et Pyral.* 77, 98.

Java.

Australia.

7. Epizeuxis carbonalis.

Fœm. *Cinereo-nigra; palpi ascendentes, arcuati; articulus 3us acicularis, 2o brevior; alæ anticæ squamis nonnullis albidis, lineis interiore et exteriore sordide albis subparallelis, hac denticulata, illa valde interrupta, punctis marginalibus albidis; posticæ pallidæ, linea margineque obscuris, subtus albida linea dentata margineque nigricantibus.*

Helia carbonalis, *Guen. Delt. et Pyral.* 77, 97.

Tasmania.

Genus 13. GLENOPTERIS.

Corpus gracile, parce vestitum. Proboscis brevis. Palpi graciles, ascendentes, subarcuati; articulus 3us compressus, acuminatus, gracillimus, 2o vix brevior. Antennæ graciles, simplices, corpore dimidio longiores. Abdomen alas posticas vix superans. Pedes graciles, subnudi, calcaribus longis. Alæ elongatæ, sat angustæ; anticæ apud costam rectæ, apice rotundatæ, margine exteriore perparum obliquo.

Glenopteris, *Hübn. Verz. Schm.* 255; *Guen. Delt. et Pyral.* 79.

Body slender, thinly clothed. Proboscis short. Palpi slender, ascending, slightly curved; third joint compressed, acuminated, very slender, nearly as long as the second. Antennæ slender, simple, more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs slender, almost bare,

moderately long; hind tibiæ with long spurs. Wings elongate, rather narrow. Fore wings straight in front, rounded at the tips, very slightly oblique along the exterior border.

1. GLENOPTERIS OCULIFERALIS.

Viridis; thorax nigro fasciatus; abdomen cinereum; alæ anticæ lineis transversis undulatis nigris, fascia exteriore incompleta albida, macula reniformi magna atra flavo marginata albido bipunctata; posticæ cupreo-fuscæ, apice luteæ.

Phalæna oculata, *Cram. Pap. Exot.* iv. 71, pl. 324, f. F.
Glenopteris oculifera, *Hübn. Zutr.* f. 377, 378; *Verz. Schm.* 255, 2518.
Glenopteris herbidalis, *Guen. Delt. et Pyral.* 80, 103.
Glenopteris oculiferalis, *Guen. Delt. et Pyral.* 80, 104.

Surinam.

a. Brazil. From Mr. Stevens' collection.
b. Santarem. From Mr. Bates' collection.
c. Tapayos. From Mr. Bates' collection.
d. Amazon Region. From Mr. Wallace's collection.
e. Brazil. From Mr. Argent's collection.

Genus 14. RENIA.

Corpus sat robustum. Palpi longi, squamoso-pilosi. Alæ amplæ; anticæ acutæ, subfalcatæ, margine exteriore flexo, reniformi pallida bipunctata. *Mas.*—Palpi ascendentes; articulus 2us subarcuatus; 3us longiusculus, cristatus. Antennæ breviusculæ, robustæ, pubescentes, apices versus tumidæ et fasciculatæ, apice convolutæ, articulis bisetosis. Tibiæ anticæ villosæ. *Fœm.*—Palpi recti, porrecti; articulus 3us supra 2um reflexus.

Renia, *Guen. Delt. et Pyral.* 80.

Body rather slender. Palpi long, with coarse and squamous hairs. Wings ample. Fore wings acute, subfalcate, with a bend on the middle of the exterior border; reniform mark pale, containing two points. *Male.*—Palpi ascending; second joint slightly curved; third rather long, with a crest. Antennæ rather short, robust, pubescent, tumid and with a lanuginous tuft near their tips; apical part slender and convoluted; each joint with two setæ. Fore tibiæ villose. *Female.*—Palpi straight, porrect; third joint short, reflexed on the second.

North America.

1. Renia discoloralis.

Mas.—*Saturate fusco-cinerea; palpi pedesque nigricantes; alæ nigricante conspersæ, costa exteriore, orbiculari et reniformi rufescente-fulvis, lineis interiore et exteriore obscuris tremulis vix conspicuis, submarginali magis determinata, umbra media obliquâ nigricante non sinuata.* Fœm.—*Pallidissime ochraceo-cinerea; palpi pedesque ochraceo-fulvi; alæ anticæ orbiculari et reniformi pallidioribus, umbra media rufescente-fusca, linea submarginali rufescente-fusco marginata; posticæ minus flavescentes, lineis magis conspicuis.*

Renia discoloralis, *Guen. Delt. et Pyral.* 82, 107.

North America.

South America.

A. Alæ anticæ margine interiore tumido. - testacealis, *Guen.*
B. Alæ anticæ margine interiore non tumido. bendialis, *Guen.*
A. Alæ anticæ apice vix acutæ.
B. Alæ anticæ apice acutæ.
a. Alæ anticæ violaceo tinctæ.
a. Alæ anticæ fascia nulla fusca. - clavalis, *Guen.*
b. Alæ anticæ fascia lata fusca. - rhamphialis, *Guen.*
b. Alæ anticæ violaceo non tinctæ.
a. Alæ anticæ apud marginem exteriorem fuscæ. punctinalis, *Guen.*
b. Alæ anticæ margine exteriore non fusco.
i. Alæ anticæ testaceo-fulvæ. - orthosialis, *Guen.*
ii. Alæ anticæ olivaceo-fuscæ. - decurialis, *Guen.*

2. Renia orthosialis.

Fœm. *Pallida testaceo-fulva; alæ anticæ valde acutæ, orbiculari et reniformi pallidioribus indistinctis, hac lituram nigram includente, illa magna, linea exteriore e punctis indistinctis, submarginali indistincta antice fusco nebulosa; posticæ sordide cinereæ.*

Renia orthosialis, *Guen. Delt. et Pyral.* 82, 105.

Brazil.

3. Renia testacealis.

Flavescente-fusca; alæ anticæ violaceo tinctæ, lituris valde indistinctis, linea exteriore e punctis duplicatis, orbiculari et reniformi magnis, margine interiore basi dilatato pilis rufis fimbriato; posticæ fuscescente-cinereæ, margine interiore basali lobum pilosum fingente, apicali replicato lanugine flavescente repleto.

Renia testacealis, *Guen. Delt. et Pyral.* 82, 106.

Brazil.

4. Renia clavalis.

Mas.—*Flavescente-cinerea; pedes antici tibiis flavo fasciculatis, tarsis brevissimis; alæ anticæ violaceo subtinctæ, costa basali umbra media fasciaque lineam submarginalem includente nigricantibus, linea interiore et umbra media postice approximatis, orbiculari et reniformis ochraceo-albis, hac perangusta, illa punctiformi; posticæ nigro-cinereæ, linea pallida subtus conspicua.* Fœm.—*Pallide fusca.*

Renia clavalis, *Guen. Delt. et Pyral.* 83, 108.

Brazil.

5. Renia bendialis.

Mas. *Pallide cinerea; palpi nigricantes, articulo 2o cristato subarcuato, 3o apice flavescente; alæ anticæ apice vix acutæ, costa fasciisque duabus incertis nigricantibus violaceo tinctis, orbiculari et reniformi pallidis subochraceis, hac oblonga, illa punctiformi, punctis marginalibus trigonis nigris; posticæ lunula discali lineisque duabus subtus conspicuis.*

Renia bendialis, *Guen. Delt. et Pyral.* 83, 109.

Brazil.

6. Renia punctinalis

Mas. *Flavescente-testacea; alæ anticæ apice peracutæ, flexurâ marginali valde rotundata, margine interiore apud medium quasi vesiculoso, spatio marginali infuscato, lineis duabus e punctis nigris, orbiculari et nigricante maximis nigricante*

inclusis, hac coarctata, illa rotunda, guttis marginalibus trigonis nigris; posticæ nigro-cinereæ, plica apud marginem interiorem lanuginosa.

Renia punctinalis, *Guen. Delt. et Pyral.* 84, 110.

Brazil.

7. Renia decurialis.

Fœm. *Olivaceo-fusca; alæ anticæ amplæ, acutæ, falcatæ, margine exteriore parum flexo, basi discoque magis flavescentibus, linea submarginali pallide ochraceo-flava vix flexa, interiore et exteriore vagis indistinctis, illa et umbra media approximatis, reniformi parva flava punctis nullis nigris; posticæ cinereæ, litura discali trigona lineisque duabus fuscis.*

Renia decurialis, *Guen. Delt. et Pyral.* 84, 111.

Brazil.

8. Renia rhamphialis.

Fœm. *Violaceo-cinerea; palpi longissimi, porrecti, contigui; articulus 2us supra apud medium subtumidus, 3us 2i triente æqualis; alæ anticæ acutæ, margine exteriore sat flexo, fascia lata submarginali ferrugineo-fusca, spatio postico nigricante, lineis subparallelis undulatis vix distinctis, interiore apud costam nigro umbrata, reniformi magna vaga ferruginea; posticæ cinereæ, linea nigricante.*

Renia rhamphialis, *Guen. Delt. et Pyral.* 85, 112.

Brazil.

Genus 15. REJECTARIA.

Mas. Corpus robustum. Palpi longi; articulus 2us villoso-squamosus, arcuatus, caput superans; 3us longissimus, basi villosior, supra thoracem reversus. Antennæ pubescentes; articuli bisetosi. Thorax robustus. Abdomen subdepressum, apice fasciculatum. Pedes validi; anticæ tibiis densis lanuginosis. Alæ integræ, robustæ, non angulatæ; anticæ costa subconcava, basi angustæ, areola bene determinata oblonga apice trifida.

Rejectaria, *Guen. Delt. et Pyral.* 85.

Male. Body stout. Palpi long; second joint villose-squamous, curved over the head; third very long, especially villose at the base, resting on the thorax. Antennæ pubescent, not nodose, with two longer setæ on each joint. Thorax robust. Abdomen slightly depressed, tufted at the tip. Legs stout; fore tibiæ furnished with a mass of lanuginous hairs. Wings entire, thick, not angular. Fore wings narrow at the base; costa slightly concave; areolet oblong, very distinct, trifid at the tip.

1. Rejectaria erebalis.

Mas. *Nigro-fusca; palporum articulus 3us undulatus, basi cristatus; alæ violaceo tinctæ; anticæ lineis interiore et exteriore subobsoletis, submarginali bisinuata intus nigro late umbrata, reniformi vix rufescente, litura atra interiore lineolaque atra exteriore contiguis.*

Rejectaria erebalis, *Guen. Delt. et Pyral.* 86, 113.

Brazil.

2. Rejectaria cocytalis.

Mas. *Ferrugineo-fusco; palpi fusci, intus ochracei; alæ violaceo subtinctæ; anticæ linea submarginali pallida valde sinuata, spatio marginali pallide ochraceo-flavo, orbiculari et reniformi bene determinatis, hac lunari atra squamis albis, illa alba punctiformi; posticæ subnigræ, linea anali indistincta.*

Rejectaria cocytalis, *Guen. Delt. et Pyral.* 86, 114.

Cayenne.

Genus 16. PHYSULA.

Corpus gracile. Abdomen subdepressum, lateribus parallelis, abrupte terminatum. Alæ tenues, integræ, rotundatæ, non angulatæ, punctis marginalibus bene determinatis; anticæ acutæ, reniformi bipunctata, areola nulla. *Mas.*—Palpi ascendentes, arcuati. Antennæ graciles, pubescentes, articulis bisetosis. *Fœm.*—Palporum articulus 2us rectus, porrectus.

Physula, *Guen. Delt. et Pyral.* 86.

Body slender. Abdomen slightly depressed, abruptly terminating in a point; sides parallel. Wings delicate, entire, rounded,

not angular, with distinctly marked marginal points. Fore wings with acute tips; reniform mark containing two points; no areolet. *Male.* — Palpi ascending, curved. Antennæ slender, pubescent, with two setæ on each joint. *Female.*—Second joint of the palpi straight, porrect.

West Indies.

1. Physula phtisialis.

Fœm. *Pallide flavescente-testacea; palpi articulo 2o obliquo latiusculo securiformi, 3o brevissimo securiformi; alæ lineis albidis undulatis tremulis roseo umbratis, punctis marginalibus nigris; anticæ submarginali late interrupta, orbiculari et reniformi indistinctis.*

Physula phtisialis, *Guen. Delt. et Pyral.* 87, 117.

Haiti.

South America.

2. Physula migralis.

Mas. *Pallide cervino-fusca; palpi longi, validi, pilis subtus squamosis longissimis, linea submarginali pallida apud costam recta, strigis marginalibus nigris fere contiguis; anticæ lineis interiore et exteriore umbraque media nigricantibus tremulis undulatis, orbiculari et reniformi ochraceo-flavis, hac nigro bipunctata.*

Physula migralis, *Guen. Delt. et Pyral.* 87, 115.

Cayenne.

3. Physula eupithecialis.

Mas. *Pallide testaceo-fusca; palpi breviusculi, gracillimi; antennæ apices versus fasciculatæ et subtus incisæ; alæ linea submarginali pallida tremula undulata, strigis marginalibus trigonis nigris; anticæ lineis interiore et exteriore umbraque media nigricantibus tremulis undulatis, orbiculari et reniformi ochraceo-flavis, hac nigro bipunctata.*

Physula eupithecialis, *Guen. Delt. et Pyral.* 87, 116.

Cayenne.

Genus 17. MEGATOMIS.

Corpus compressum. Thorax villosus. Abdomen abrupte terminatum, lateribus parallelis. Alæ dentatæ aut subdentatæ, concolores, lineis non diversis, fasciis integris non abbreviatis; anticæ acutæ, basi angustæ, costa subconcava, margine exteriore flexo, areola valde distincta; posticæ oblongæ, margine exteriore postico quadrato. *Mas.*—Palpi longissimi, arcuati aut flexi, supra thoracem reversi, articulo 2o squamoso. Antennæ pubescentes, apices versus fasciculatæ et dislocatæ, apice ciliatæ. *Fœm.*—Palpi breviores, arcuati, articulo 2o ensiformi, 3o lineari aciculari.

Megatomis, *Hübn. Verz. Schm.* 342.
Homogramma, *Guen. Delt. et Pyral.* 88.

Body compressed. Thorax villose. Abdomen with parallel sides, abruptly pointed at the tip. Wings dentate or slightly dentate, alike in colour and with like markings, with one or more complete bands. Fore wings with acute tips, narrow at the base; costa slightly concave, abruptly convex towards the tip; exterior border bent; areolet very distinct. Hind wings oblong; exterior border quadrate on approaching the interior angle. *Male.*—Palpi very long, curved or bent, resting on the thorax; second joint compressed, with squamous hairs. Antennæ pubescent, tufted and deviating beyond the middle, with thick-set ciliæ from thence to the tips. *Female.*—Palpi shorter, curved; second joint ensiform; third linear, acicular.

A. Alæ purpurascente variæ.
  A. Alæ puncto nullo apicali. - - - mialis, *Guen.*
  B. Alæ anticæ puncto apicali nigro.
    a. Alæ carneo-cinereæ. - - - humeralis, *Guen.*
    b. Alæ ferrugineo-fuscæ. - - - - mimalis, *Hübn.*
B. Alæ purpurascente non variæ.
  A. Alæ fuscescente-albæ. - - - acidalialis, *Guen.*
  B. Alæ non fuscescente-albæ.
    a. Alæ anticæ costa non cinerascente.
      a. Palpi maris thoracis medium attingentes.
        i. Tibiæ anticæ simplices. - - macarialis, *Guen.*
        ii. Tibiæ anticæ dilatatæ et fasciculatæ. Augiasalis, *Walk.*
      b. Palpi maris thoracis marginem posticum fere attingentes.
        i. Tibiæ posticæ non fasciculatæ.
          * Alæ anticæ ocello apicali. Polycletusalis, *Walk.*

** Alæ anticæ ocello nullo. - Lysippusalis, *Walk.*
ii. Tibiæ posticæ apice fasciculatæ. - Leosalis, *Walk.*
B. Alæ angulatæ. - - - - moribundalis, *Guen.*

1. MEGATOMIS MIALIS.

Mas: *Læte fulvo-flava; palpi articulis 2o et 3o longitudine æqualibus; tibiæ anticæ fasciculatæ; alæ dentatæ, linea obliqua recta denticulata albida violaceo-fusco nebulosa, lineis interiore et exteriore indistinctis interruptis; anticæ subtus lunulis duabus cyanescentibus apiculibus nigro notatis.*

Homogramma mialis, *Guen. Delt. et Pyral.* 89, 118.

Cayenne.

2. MEGATOMIS MIMALIS.

Mas.—*Ferrugineo-fusca; palpi et thorax anticus pallidiores; alæ dentatæ, linea obliqua albida, linea 2a undata violaceo puncto apicali nigro notata, lineis interiore et exteriore indistinctis incompletis, subtus cervino et violaceo-albo variæ fusco conspersæ.* Fœm.—*Brevior, magis rufescens.*

Salia Mirabilis Mimalia, *Hübn. Exot. Schm.* i. *Lep.* vi. *Pyral.* i. *Geom.* i. *Sal. C. Mir.* b. f. 1—4.
Megatomis mimalis, *Hübn. Verz. Schm.* 342, 3281.
Homogramma mimalis, *Guen. Delt. et Pyral.* 89, 119.

Cayenne.

3. MEGATOMIS ACIDALIALIS.

Fœm. *Fuscescente-alba; alæ dentatæ, fusco conspersæ, lineis tribus obliquis parallelis subrectis, interiore et exteriore fuscis, submarginali ochraceo-fusco marginata, spatio intermedio albo; anticæ umbra fusca discali e striga pallida divisa, subtus ochraceo-cinereæ, fusco conspersæ.*

Homogramma acidalialis, *Guen. Delt. et Pyral.* 90, 120.

Cayenne.

4. MEGATOMIS HUMERÁLIS.

Fœm. *Pallide carneo-cinerea; palpi articulo 3o tenuissimo; alæ cervino tinctæ, fusco nebulosæ, linea obliqua pallido marginata, spatio marginali saturate cervino lineam submarginalem undatam subpurpurascente-cineream includente; anticæ lunula discali pallide flava, puncto apicali nigro; posticæ pallidiores.*

Homogramma humeralis, *Guen. Delt. et Pyral.* 90, 121.

Brazil.

5. MEGATOMIS MACARIALIS.

Mas. *Pallide ochracea; palpi thoracis medium vix attingentes, articulo 2o arcuato, 3o breviore apice obtuso; tibiæ anticæ simplices; alæ latiores, subdentatæ flavo fuscoque variæ, umbra media, linea submarginali undata pallida obscuro marginata, lunulis marginalibus nigris contiguis; anticæ lunula discali vaga pallide flava, puncto apicali nigro.*

Homogramma macarialis, *Guen. Delt. et Pyral.* 90, 122.

Cayenne.

6. MEGATOMIS MORIBUNDALIS.

Fœm. *Pallidissime ochracea; alæ dentatæ et angulatæ; anticæ costa subcinerascente, linea submarginali valde flexuosa et interrupta extus ferrugineo nebulosa, lineolis apud marginem interiorem obliquis parallelis, orbiculari et reniformi cinereis, illa punctiformi; posticæ linea submarginali rufescente recta spatio marginali cinerea.*

Homogramma moribundalis, *Guen. Delt. et Pyral.* 91, 123.

Cayenne.

7. MEGATOMIS AUGIASALIS.

Mas. *Ochracea; palpi thoracis medium attingentes, articulo 1o clavato, 2o arcuato, 3o recto lineari; antennæ apices versus dilatatæ et fasciculatæ, apice convolutæ et setosæ; abdomen alas posticas paullo superans; tibiæ anticæ dilatatæ et fasciculatæ; alæ longæ, angustæ, fascia nigra extus diffusa, linea interiore undulata indistincta incompleta, exteriore nigricante undulata; anticæ striga marginali nigra, orbiculari albida oblonga, reniformi nigra extus albo marginata.*

Male. Ochraceous. Palpi long, compressed, pubescent, reflexed, extending to the middle of the thorax; first joint clavate, more than half the length of the second; second curved; third straight, linear, apparently securiform at the tip, a little longer than the second. Antennæ dilated and tufted beyond the middle, convoluted and setose from thence to the tips. Abdomen extending a little beyond the hind wings. Fore tibiæ dilated and tufted. Wings long, narrow, with a black band, which extends from the tips of the fore wings to the interior angle of the hind wings, and is diffuse on the exterior side; exterior line blackish, denticulated, near the inner side of the band; interior line undulating, indistinct, incomplete; submarginal line partly concealed by the band, with a whitish border in front. Fore wings mottled along the costa, with a black streak which extends from the band to the angle of the exterior border; orbicular mark whitish, oblong, with a dark border; a blackish spot behind it; reniform black, bordered with white on the outer side. Length of the body 6 lines; of the wings 15 lines.

a. Ega. From Mr. Bates' collection.

8. Megatomis Polycletusalis.

Mas. *Luteo-testacea; palpi thoracis marginem posticum fere attingentes, articulo* 1o *brevi,* 2o *valde arcuato,* 3o *recto cylindrico; tibiæ anticæ dilatatæ et fasciculatæ; alæ fuscæ, denticulatæ, sat angustæ, fascia discali lata abbreviata diffusa obliqua albida lineam exteriorem fuscam undulatam includente, linea submarginali lutea denticulata undulata, spatio marginali purpurascente; anticæ subangulatæ, striga lata marginali fusca, ocello apicali, orbiculari et reniformi, nigris, hac perangusta, illa obliqua.*

Male. Luteous-testaceous. Palpi very long, compressed, pubescent, reverted to beyond the middle of the thorax; first joint short; second much curved, with some long hairs proceeding from its tip; third straight, cylindrical, longer than the second. Antennæ dilated and tufted beyond the middle, convoluted and setose from thence to the tips. Fore tibiæ dilated and tufted. Abdomen extending a little beyond the hind wings. Wings denticulated, mostly brown, rather long and narrow, with a broad diffuse abbreviated oblique whitish discal band, which contains the brown

undulating exterior line; submarginal line luteous, denticulated, undulating; a purplish tinge between it and the marginal festoon, which is brown, interlined with luteous and accompanied by a white inner line; fringe whitish, with some black marks. Fore wings slightly angular in the middle of the exterior border, to which a broad brown streak proceeds from the submarginal line; costa with luteous speckles; an apical black ocellus, partly bordered with purplish white; orbicular and reniform marks black, the former oblique, the latter very narrow. Wings beneath whitish, speckled with brown, with luteous lines; discal lunule deep black. Length of the body 3½ lines; of the wings 9 lines.

a. Villa Nova. From Mr. Bates' collection.

9. MEGATOMIS LYSIPPUSALIS.

Fœm. *Luteo-testacea; palpi thoracis marginem posticum fere attingentes, articulo 2o penicillato valde arcuato, 3o subarcuato cylindrico basi appendiculato; abdomen alas posticas non superans; tibiæ anticæ dilatatæ et fasciculatæ; alæ longiusculæ, non denticulatæ, subrufescentes, linea albida recta obliqua extus nigro marginata costam versus angulata, linea marginali nigra valde denticulata; anticæ margine exteriore subangulato, linea interiore nigra tenui denticulata, orbiculari et reniformi nigricantibus albido submarginatis.*

Female. Luteous-testaceous. Palpi very long, pubescent, reverted, extending beyond the middle of the thorax; first joint short; second much curved, with a long fan-shaped pencil of yellow hairs at its tip; third slightly curved, cylindrical, squamous, with an appendage at the base, as long as the second. Abdomen not extending beyond the hind wings. Fore tibiæ dilated and tufted. Wings rather long, moderately broad, with a slight reddish tinge, minutely speckled with black, not denticulated; a whitish straight line, bordered with black on the outer side, forming an angle near three-fourths of the length of the costa of the fore wings, and extending thence to beyond the middle of the interior border of the hind wings; submarginal line black, much denticulated; marginal festoon black, with a luteous line between it and the black line at the base of the fringe. Fore wings slightly angular in the middle of the exterior border; interior line slight, black, denticulated; orbicular and reniform marks blackish, with incomplete whitish borders. This species somewhat resembles the *Thormesiæ* in the markings. Length of the body 6 lines; of the wings 16 lines.

a. Brazil. From Mr. Stevens' collection.

10. MEGATOMIS? LEOSALIS.

Mas. *Cervina, subtus albido-testacea fusco varia; palpi fusci, thoracis marginem posticum fere attingentes; abdomen alas posticas superans, segmentis albo marginatis; pedes albidi; tibiæ posticæ fasciculis apicalibus nigris; alæ angustæ, lineis albis, exteriore subundulata, submarginali undulata denticulata incompleta; anticæ subfalcatæ margine exteriore flexo, orbiculari et reniformi albis nigro submarginatis, hac magna fusco interlineata, illa punctiformi; posticæ fuscæ, antice albidæ.*

Male. Fawn-colour, whitish testaceous and varied with brown beneath. Palpi pubescent, very long, reverted, mostly brown, resting on the thorax and extending nearly to its hind border; first joint short; second very much curved, forming a semicircle on the head, with some long apical hairs which extend to the tip of the third joint; the latter testaceous, straight, cylindrical, almost as long as the second. Abdomen extending rather beyond the hind wings; hind borders of the segments white. Legs whitish; posterior tibiæ with black apical tufts. Wings narrow, slightly excavated on each side of the bend in the middle of the exterior border; lines white; exterior line slightly undulating; submarginal line undulating, denticulated, incomplete; marginal festoon blackish; fringe white, interlined with brown. Fore wings subfalcate, with white costal speckles; orbicular and reniform marks white, slightly bordered with black; the former punctiform; the latter large, interlined with brown. Hind wings brown; fore half mostly whitish. This species may form a distinct genus. Length of the body 4¼ lines; of the wings 10 lines.

Genus 18. HETEROGRAMMA.

Corpus sat gracile. Palpi arcuati. Antennæ simplices. Abdomen non depressum. Alæ non latæ; anticæ apice acutæ, margine exteriore subflexo, areola nulla. *Mas.*—Palpi longi, flexi, supra thoracem reversi. Antennæ fasciculato-setosæ. Tibiæ anticæ plus minusve pilosæ. *Fœm.*—Palpi ascendentes; articulus 2us supra villosus.

Heterogramma, *Guen. Delt. et Pyral.* 91.

Body rather slender. Palpi curved. Antennæ simple. Abdomen not depressed. Wings rather narrow. Fore wings acute

at the tips; exterior border slightly bent; no areolet. *Male.*—Palpi long, turned back on the thorax. Antennæ with minute tufts of setæ. Fore tibiæ more or less pilose. Abdomen slender, attenuated. *Female.*—Palpi ascending; second joint villose above. Abdomen keeled, abruptly acuminated at the tip.

West Indies.

1. Heterogramma micculalis.

Mas. H. circumflexali *simillima; abdomen plus attenuatum; tibiæ anticæ minus pilosæ; alæ anticæ paullo angustiores, angulo minus conspicuo, lunulis marginalibus insulatis, reniformi majore antice flavescente squamosa postice non incisa, orbiculari distincta nigra; posticæ pallidiores, lituris minus distinctis.*

Heterogramma micculalis, *Guen. Delt. et Pyral.* 92, 125.

Haiti.

South America.

2. Heterogramma circumflexalis.

Saturate cinerea; alæ violaceo subtinctæ; anticæ lineâ interiore recta, umbra media et linea exteriore parallelis valde flexuosis, spatio exteriore bicolori, linea submarginali pallida denticulata fracta; posticæ lineis duabus. Mas.—*Palpi articulo 2o crasso carinam fingente.* Fœm.—*Palpi articulo 2o arcuato villoso, 3o tenui cristato.*

Heterogramma circumflexalis, *Guen. Delt. et Pyral.* 92, 125.

Brazil.

3. Heterogramma eudorealis.

Mas. *Violaceo-cinerea; palpi articulo 2o coxiformi subarcuato, 3o fusiformi valde acuto; tibiæ anticæ vix squamoso-pilosæ; alæ anticæ basi pallidiores, spatio marginali obscuriore lineam exteriorem obliquam subsinuatam e lineola obscura divisam includente, reniformi magna nigra, orbiculari pallida punctiformi; posticæ pallidæ.*

Heterogramma eudorealis, *Guen. Delt. et Pyral.* 93, 126.

Cayenne.

Genus 19. MASTYGOPHORA.

Mas. Corpus sat gracile. Proboscis brevis. Palpi pubescentes, corpore longiores; articulus 1us suberectus, arcuatus; 2us undulatus aut rectus, corpore vix brevior; 3us arcuatus, 2i triente longior, subtus fasciculatus. Antennæ subpubescentes; articuli bisetosi. Abdomen alas posticas non superans; fasciculus apicalis parvus. Pedes graciles, subpilosi, calcaribus longis; tibiæ anticæ dense fasciculatæ. Alæ latiusculæ; anticæ subfalcatæ, margine exteriore obliquo subconvexo.

Mastygophora, *Poey, Cent. Ins. Cuba; Guen. Delt. et Pyral.* 93. Type, *M. Epitusalis.*

Male. Body rather slender. Proboscis short. Palpi pubescent, longer than the body; first joint curved, nearly erect, but not rising to the vertex; second undulating, nearly as long as the body; third curved, more than one-third of the length of the second, furnished beneath with a tuft of long silky hairs. Antennæ minutely pubescent, more than half the length of the body, with two bristles on each joint. Abdomen not extending beyond the hind wings; apical tuft small. Legs slender, slightly pilose; spurs long; fore tibiæ densely tufted. Wings rather broad. Fore wings subfalcate; exterior border slightly convex, moderately oblique.

West Indies.

1. MASTYGOPHORA PARRALIS.

Nigro-fusca; alæ anticæ lineis quatuor lunulaque discali flavescentibus, linea interiore brevi arcuata, exteriore et submarginali sat approximatis subparallelis; posticæ pallidiores lineis duabus.

Mastygophora parralis, *Poey, Cent. Ins. Cuba. Guen. Delt. et Pyral.* 94, 127.

Cuba.

South America.

2. Mastygophora Lycagusalis.

Fusca; palpi iridescentes, fasciculo albido; alæ anticæ linea interiore angulata testacea extus nigricante marginata, exteriore testacea undulata denticulata nigricante marginata, submarginali nigricante undulata costam versus dilatata albidoque notata, pluga testacea et litura reniformi contiguis, orbiculari punctiformi alba nigro marginata; posticæ fuscescente-cinereæ, lineis duabus fuscis.

Male. Brown, brownish cinereous beneath. Palpi with iridescent down; tuft whitish. Abdomen æneous-brown. Fore wings with the interior line angular, testaceous, with a blackish outer border; exterior line testaceous, undulating and denticulated, with blackish borders, contiguous to the outer side of a testaceous patch, which has on its inner side the whitish reniform mark; marginal line blackish, undulating, dilated and with whitish marks towards the tip of the wing; marginal lunules black; orbicular mark forming a white black-bordered point. Hind wings brownish cinereous, with two brown lines, of which the outer one is broad and includes a whitish line; these lines are almost obsolete above, but distinct beneath, where there is also a blackish discal mark. Length of the body 7 lines; of the wings 15 lines.

a. Venezuela. From Mr. Dyson's collection.

3. Mastygophora Epitusalis.

Mas. *Ferrugineo-fusca; alæ subdenticulatæ; anticæ lineis nigris incompletis denticulatis, submarginali lutescente-testacea nigro ex parte marginata, orbiculari e gutta alba nigro marginata, reniformi albida extus concava strigam latam nigram trajiciente, margine exteriore subangulato.*

Male. Ferruginous-brown. Abdemen, hind wings and under side more cinereous. First joint of the palpi porrect, rather shorter than the abdomen; second a little longer than the first, on which it is reverted; third resting on the thorax, with a tuft of long spatulated hairs. Wings slightly denticulated. Fore wings with black incomplete denticulated lines; submarginal line lutescent-testaceous, partly bordered with black, with two slight curves, between which there are two denticulations; exterior border slightly angular in the middle; marginal dots black, accompanied by a lutes-

cent-testaceous line; orbicular mark represented by a white black-bordered dot, behind which there is another similar dot; reniform whitish, concave exteriorly, interrupting a broad black streak; under side lutescent-testaceous along the costa. Hind wings with the denticulated lines almost obsolete above, but very distinct beneath. Length of the body 5 lines; of the wings 12 lines.

a—d. Venezuela. From Mr. Dyson's collection.

4. Mastygophora Brontesalis.

Mas. *Cervina, subtus albido-cinerea; palpi intus albi, articuli 3i fasciculo longo denso lanuginoso testaceo; alæ linea interiore fuscescente indistincta, spatio medio albido, linea exteriore pallida undulata, fascia submarginali fuscescente extus valde excavata, reniformi e punctis duobus nigris; posticæ lituris subtus distinctis.*

Female. Fawn-colour, whitish cinereous beneath. Palpi white on the inner side; first joint porrect, longer than the thorax; second longer than the first, on which it is reflexed; third longer than the second, and extending nearly to the middle of the abdomen, channelled along the inner side, on which it is furnished with a thick tuft of delicate, testaceous, woolly, and very long hairs. Antennæ pubescent, with two setæ on each joint. Abdominal segments with pale sutures. Wings with the interior line brownish, indistinct; a whitish space between it and the exterior line; the latter pale, undulating, partly and irregularly accompanied by black flecks, and having along its outer side a brownish band; this much excavated on its outer side, by which there are some traces of the dark brown submarginal line; marginal lunules black; reniform mark indicated by two black points. Hind wings beneath with the discal mark, the lines and the exterior border brown. Length of the body 6 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 20. PALTHIS.

Mas. Corpus sat validum. Proboscis brevis. Palpi compressi, pubescentes, longissimi, supra thoracem reversi; articulus 2us arcuatus; 3us rectus, apice fasciculatus, 2o plus duplo longior. Antennæ sat validæ, apice convolutæ, articulis bisetosis. Abdomen alas posticas paullo superans. Pedes sat graciles, subnudi; tibiæ

posticæ fasciculatæ. Alæ angustæ; anticæ subfalcatæ, margine exteriore subflexo postice perobliquo.

Palthis, *Hübn. Verz. Schm.* 342.
Hypena, p., *Treit.*
Herminia, p., *Herr.-Schæff.*
Clanyma, *Guen. Delt. et Pyral.* 94.

Male. Body moderately stout. Proboscis short. Palpi compressed, pubescent, very long, resting on the thorax and extending to its hind border; first joint short; second curved, extending to the vertex; third straight, with an apical tuft, more than twice the length of the second. Antennæ rather stout, with two long setæ on each joint, convoluted towards the tips. Abdomen extending a little beyond the hind wings. Legs rather slender, almost bare; spurs long; hind tibiæ tufted. Wings narrow. Fore wings subfalcate; exterior border slightly bent, very oblique hindward.

North America.

1. Palthis angulalis.

Cinereo-testacea; alæ lineis interiore et exteriore nigricantibus undulatis denticulatis, submarginali albida undulata, linea marginali nigra; anticæ fusco conspersæ, plaga postica fuscescente, reniformi fusca distincta subquadrata; posticæ sordide albidæ.

Hypena angulalis, *Treit. Schm.* 36.
Pyralis angulalis, *Hübn. Eur. Schm. Pyral.* f. 107.
Palthis angulalis, *Hübn. Verz. Schm.* 242, 3287.
Herminia angulatis, *Herr.-Schæff. Schm. Eur.* vi. 382.
Clanyma angulatis, *Guen. Delt. et Pyral.* 95, 128.

a, b. United States. Presented by E. Doubleday, Esq.

2. Palthis asopialis.

Mas. C. spectali *minor; alæ anticæ angustiores apice acutiores; palpi longiores, articuli 3i fasciculo denso flavo; antennæ minus moniliformes, ciliis longioribus; abdomen brevius.*

Clanyma asopialis, *Guen. Delt. et Pyral.* 96, 130.

North America.

South America.

3. Palthis spectalis.

Mas. *Pallide carneo-cinerea; alæ anticæ umbra media obliqua apiceque nigricantibus, linea interiore pallida flexa nigro lineata lineolam pallidam emittente, orbiculari ovata obliqua rufo-fusca, reniformi nigro-fusca, lineis exteriore et submarginali pallidis indistinctis parallelis valde undulatis*

Clanyma spectalis, *Guen. Delt. et Pyral.* 95, 129.

Brazil.

4. Palthis agroteralis.

Fœm. *Pallide carneo-cinerea; alæ angustæ, subfalcatæ, margine exteriore sat flexo, lineis interiore et exteriore indistinctis nigricantibus undulatis parallelis, umbra media lata obliqua nigricante, linea submarginali pallida latissime interrupta; posticæ pallidiores.*

Clanyma agroteralis, *Guen. Delt. et Pyral.* 96, 131.

Brazil.

The four following species hardly belong to *Palthis*, and may be separated from it when the affinities of the other genera are more understood.

5. Palthis? Arcasalis.

Mas. *Fuscescente-cinerea aut cana, crassa, pilosissima; palpi robusti, dense pilosi, thoracis marginem posticum ferè attingentes; antennæ subserratæ, corporis dimidio non longiores; abdomen alas posticas paullo superans, lateribus apicem versus fasciculatis; pedes densissime pilosi; alæ angustæ; anticæ apice rotundatæ, fusco conspersæ, vitta fusca discali lata abbreviata nonnunquam interrupta; posticæ pallidiores.*

Male. Brownish cinereous, very stout and pilose. Palpi stout, densely pilose to the tips, resting on the thorax and extending nearly to the hind border; second joint curved; third almost as long as the second. Antennæ stout, subserrate, not more than half the length of the body. Abdomen densely tufted on each side towards the tip, extending a little beyond the hind wings. Legs most densely pilose. Wings rather narrow. Fore wings speckled with

brown, rounded at the tips, slightly oblique along the exterior border; a broad abbreviated discal brown stripe, oblique exteriorly and forming two angles on the hind side; lines very indistinct. Hind wings pale cinereous, without lines; interior border densely pilose. *Var.* β.—Fore wings with the stripe irregular, not angular, but emitting a broad obtuse branch hindward. *Var.* γ.—Stripe interrupted and irregular. *Var.* δ.—Hoary. Fore wings with blackish transverse marks along the costa. *Var.* ε.—Like *var.* δ. Stripe interrupted, irregular. Length of the body 5½ lines; of the wings 12 lines.

a—j. St. Domingo. From Mr. Tweedie's collection.

6. Palthis? Mimasalis.

Mas. *Ferrugineo-fusca; palpi dense fimbriati, thoracis marginem posticum attingentes; antennæ validæ, simplices, basi albidæ; abdominis lateræ apicem versus dense fasciculata; pedes dense pilosi; alæ fimbria latissima; anticæ pallido conspersæ, lineis nullis.*

Male. Like *P. Arcasalis* in structure. Ferruginous-brown. Abdomen, hind wings and under side brownish cinereous. Palpi densely fringed, extending to the hind border of the thorax; edge of the fringe cinereous. Antennæ stout, simple, whitish at the base. Abdomen densely tufted on each side at the tip. Legs densely pilose, with the exception of the fore tarsi. Wings with a very broad fringe. Fore wings with pale speckles; a discal mark composed of white flecks; lines obsolete. Hind wings without lines. Length of the body 4 lines; of the wings 10 lines.

a. St. Domingo. From Mr. Tweedie's collection.

7. Palthis? Arimusalis.

Mas. *Ferrugineo-fusca; palpi arcuati, lanceolati, pilosi, thoracis marginem posticum fere attingentes, articulo 3o recto; antennæ breves, robustæ, subserratæ; abdomen alas posticas paullo superans, tentaculis apicalibus sat longis; pedes pilosi, calcaribus longissimis; alæ breviusculæ, sat angustæ; anticæ rotundatæ, puncto discali albo.*

Male. Ferruginous-brown, cinereous-brown beneath. Palpi long, curved, lanceolate, pilose in front, reflexed over the head nearly to the hind border of the thorax; first joint rising to the vertex, shorter and more curved than the second; third acicular;

straight, much shorter than the second. Antennæ short, stout, very minutely serrated. Abdomen extending a little beyond the hind wings, with long apical appendages or tentacles. Legs pilose; spurs extremely long. Wings rather short and narrow, without markings. Fore wings hardly convex along the costa, somewhat rounded at the tips; exterior border moderately oblique; interior angle much rounded; a white discal point. Length of the body 3½ lines; of the wings 10 lines.

a. Parà. From Mr. Bates' collection.

8. PALTHIS? PRETUSALIS.

Mas. *Cinereo-fusca; palpi validi, pilosi, reflexi; antennæ robustæ, subserratæ; abdomen cinereum, alas posticas superans, apice fasciculatum; pedes validi, pilosi, calcaribus longissimis; alæ micaceæ, sat angustæ, fimbria lata; anticæ nigro conspersæ, apice rotundatæ, margine exteriore vix obliquo; posticæ apud marginem interiorem latissime fimbriatæ.*

Male. Cinereous-brown. Palpi stout, pilose, reflexed. Antennæ stout, very minutely serrated. Abdomen cinereous, tufted at the tip, extending somewhat beyond the hind wings. Legs stout, pilose; spurs very long. Wings glistening, rather narrow; fringe broad. Fore wings speckled with black, somewhat rounded at the tips, hardly oblique along the exterior border; lines obsolete. Hind wings rather paler; interior border very broadly fringed. Length of the body 5½ lines; of the wings 11 lines.

The specimen described is injured, and it may form a third genus.

a. Honduras. From Mr. Dyson's collection.

Genus 21. MACALLA.

Mas. Corpus sat robustum. Caput cornubus duobus deflexis squamosis plumosis. Palpi squamosi, oblique ascendentes, non longi; articulus 2us subarcuatus, penicillo basali; 3us lanceolatus, 2i dimidio brevior. Antennæ sat graciles, subsetosæ, subpubescentes. Abdomen alas posticas non aut vix superans. Pedes longiusculi, sat validi, subpilosi, calcaribus longis. Alæ anticæ angustæ, apud costam vix convexæ, apice acutæ, margine exteriore perobliquo; posticæ semivitreæ. *Fœm.*—Caput inermes. Antennæ simplices.

Male.—Body moderately stout. Head furnished between the antennæ with two long, vertical, diverging, squamous horns, which

have a thick tuft of plumes on each towards the tips. Palpi squamous, obliquely ascending, not long; second joint slightly curved, not furnished at the base with a fan-shaped tuft; third lanceolate, less than half the length of the second. Antennæ rather slender, minutely setose and pubescent. Abdomen not or hardly extending beyond the hind wings. Legs rather long and stout, slightly pilose; spurs long. Fore wings narrow, hardly convex along the costa, acute at the tips, very oblique along the exterior border. Hind wings semivitreous. *Female.*—Head unarmed. Palpi simple.

1. Macalla Thyrsisalis.

Mas et fœm. *Cervina, subtus albida; maris cornua nigro plumosa; palporum articulus 2us albido fasciculatus; alæ anticæ apud marginem exteriorem subnigricantes, disco albido semihyalino, macula apud marginem interiorem basalem e squamis nigris, linea exteriore valde denticulata punctisque marginalibus nigris, orbiculari et reniformi nigris, hac parva; posticæ albæ, subvitreæ, linea marginali nigra.*

Male and female. Fawn-colour, whitish beneath. Horns of the male with black plumes. Palpi with a whitish tuft on the second joint. Fore wings whitish and semitransparent in the disk, with a blackish tinge along the exterior border; a spot composed of deep black flecks on the interior border near the base; exterior line black, much denticulated; marginal points black; fringe with blackish marks; orbicular and reniform marks black, the latter small. Hind wings white, nearly vitreous, with a brown marginal line, which is dilated at the tips. Length of the body 5 lines; of the wings 12 lines.

a—g. Honduras. From Mr. Miller's collection.

Genus 22. ORTOPLA.

Mas. Corpus valde robustum et pilosum. Palpi validi, erecti, longiusculi, dense fasciculati; articulus 2us subarcuatus; 3us lanceolatus, 2o valde brevior. Antennæ crenulatæ apices versus simplices. Abdomen subtumidum; latera lanuginosa. Pedes validi, dense fasciculati, calcaribus longissimis. Alæ anticæ squamosæ, costa apud medium dilatata et angulata apicem versus oblique truncata; posticæ subdenticulatæ, versus angulum interiorem subexcavatæ.

Male. Body very stout and pilose. Proboscis short. Palpi stout, vertical, rather long, thickly tufted to their tips; second joint slightly curved; third lanceolate, much shorter than the second, its tuft rising much above it. Antennæ more than half the length of the body, crenulated with short ciliæ, gradually becoming simple towards their tips. Abdomen somewhat tumid, lanuginous on each side. Legs stout, densely tufted; spurs very long. Wings ample, stout. Fore wings squamous; costa enlarged and angular in the middle, abruptly but obliquely truncated from thence to the tips; exterior border convex, rather oblique. Hind wings slightly denticulated, and towards the interior angle slightly excavated.

This genus hardly belongs to the *Herminidæ*.

1. ORTOPLA IARBASALIS.

Mas. *Luteo-fulva; thorax fusco bifasciatus, pilis plurimis albis; abdomen basi fasciculatum; alæ anticæ æneo micaceæ, lineis denticulatis albo submarginatis fasciisque interruptis e squamis fuscis, costa apicem versus incrassata; posticæ pallide luteæ, nitentes, fascia margineque latissimo fuscescente-cupreis.*

Luteous-tawny. Thorax with two brown bands and with many white hairs. Abdomen tufted towards the base. Fore wings glistening with æneous, with denticulated lines and interrupted bands composed of brown speckles; the lines partly and irregularly bordered with white; costa thickened in the truncated part. Hind wings pale luteous, shining, with a band and a very broad border brownish cupreous. Length of the body 11 lines; of the wings 24 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 23. MARDARA.

Fœm. Corpus gracile. Palpi squamosi, compressi, angulati; articulus 2us longissimus, porrectus, vix ascendens; 3us 2i dimidio brevior. Antennæ graciles, arcuatæ, setis minutis. Abdomen alas posticas vix superans. Pedes graciles, subnudi. Alæ angustæ, longiusculæ; anticæ vix falcatæ, margine exteriore subflexo.

Female. Resembles some of the *Hypenidæ*. Body slender. Proboscis short. Palpi squamous, compressed; second joint very long, porrect, hardly ascending; third a little less than half the length of the second, with which it forms an almost right angle. Antennæ slender, curved, with minute setæ. Abdomen extending

very little beyond the hind wings. Legs slender, almost bare; hind tibiæ with long spurs. Wings narrow, rather long. Fore wings hardly falcate; exterior border with a slight bend in the middle, its hind part very oblique.

1. MARDARA ARACINTHUSALIS.

Fœm. *Pallide cervina; alæ anticæ ex parte albido-testaceæ, fusco subconspersæ, linea interiore ferruginea subundulata, fascia media obliqua fusca antice subinterrupta postice dilatata, linea exteriore fusca undulata, submarginali indistincta undulata denticulata, reniformi lutea angusta obliqua fusco marginata; plaga postica ferruginea.*

Female. Pale fawn-colour; under side and hind wings whitish testaceous, slightly speckled with brown; interior line ferruginous, slightly undulating; a middle oblique brown band, almost interrupted in front, dilated towards the interior border; exterior line brown, undulating; submarginal line indistinct, undulating and denticulated; reniform mark luteous, narrow, oblique, bordered with brown; some black squamous hairs along the interior border; fringe interlined. Hind wings with two incomplete lines; a ferruginous patch by the hind part of the exterior border. Length of the body 3½ lines; of the wings 10½ lines.

a. ——— ?

Genus 24. LOCASTRA.

Mas. Corpus robustum, dense pilosum. Caput cornubus duobus incumbentibus dense squamoso-pilosis. Palpi breves, validi, ascendentes, arcte applicati, dense squamoso-pilosi; articulus 2us antice tumidus; 3us longi-conicus, 2o brevior. Antennæ conferte crenulatæ, articulis quadrisetosis. Abdomen alas posticas paullo superans. Pedes validi, dense pilosi. Alæ anticæ squamosæ, sat angustæ, apice subrotundatæ, margine exteriore perobliquo.

Male. Body stout, densely pilose. Head with two reverted appendages, which are thickly clothed with squamous hairs, and extend to the fore part of the thorax. Proboscis short. Palpi short, stout, ascending, applied close to the head, densely clothed with squamous hairs; second joint tumid in front; third elongate-conical, shorter than the second. Antennæ minutely and thickly crenulated with two pairs of setæ on each joint. Abdomen extending a little beyond the hind wings. Legs stout, densely pilose, including the

tarsi; spurs long. Fore wings squamous, rather narrow, hardly convex along the costa, slightly rounded at the tips, very oblique along the exterior border.

1. Locastra Maimonalis.

Mas. *Ferruginea, luteo varia; alæ anticæ viridi tinctæ, lineis nigricantibus denticulatis et undulatis, linea marginali fusca, reniformi valde indistincta; posticæ albidæ, subhyalinæ, margine interiore pilis albidis dense vestito.*

Male. Ferruginous, partly luteous and with some black squamous hairs; under side luteous. Wings shining. Fore wings tinged with green, with blackish irregular denticulated and undulating lines; marginal line brown; reniform mark very indistinct; under side, like that of the hind wings, whitish with a reddish tinge in front. Hind wings whitish, slightly hyaline; interior border thickly clothed with pale reddish hairs. Length of the body 10 lines; of the wings 22 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

2. Locastra Phereciusalis.

Mas. *Viridi-flava, subtus testacea; capitis cornua rufescentia apice nigricantia; palpi testacei, longi, lanceolati, arcuati; thorax fasciis duabus rufescentibus nigro marginatis; abdomen supra ochraceum; pedes rufescentes, nigro fasciati; alæ anticæ nigro conspersæ, ex parte rufescentes, lineis interiore et exteriore nigris incompletis, reniformi nigra; posticæ cupreo-fuscæ.*

Male. Greenish yellow, testaceous beneath. Appendages of the head reddish, blackish and iridescent at the tips. Palpi testaceous, long, lanceolate, curved, much longer than in the preceding species, ascending high above the head. Thorax with two reddish black-bordered bands. Abdomen ochraceous above. Legs reddish, with black bands; hairs partly whitish. Wings with broad shining pale red fringes. Fore wings partly reddish, irregularly speckled with black; interior and exterior lines black, irregular, incomplete, interrupted; marginal festoon and reniform mark black. Hind wings cupreous-brown; under side of the four wings with a cinereous band and a very broad cinereous border. Length of the body 6 lines; of the wings 16 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

3. Locastra Sagarisalis.

Mas. *Ochracea; palpi erecti, breviusculi, arcte applicati, articulo 3o brevi longi-conico; alæ anticæ fusco conspersæ, costa apud medium incisa et incrassata, lineis interiore et exteriore nigris denticulatis undulatis, striga discali interiore e squamis albis, guttis marginalibus fuscis; posticæ luteæ, fusco marginatæ.*

Male. Ochraceous, much nearer allied to *L. Maimonalis* than to the preceding species. Appendages of the head reverted to the thorax between the costa of the fore wings. Palpi vertical, rather short, applied close to the head; third joint elongate-conical, slightly inclined forward, and thus forming a very obtuse angle with the second, of which it is not more than one-fourth of the length. Fore wings speckled with brown; costa notched and thickened at a little beyond the middle; interior and exterior lines black, denticulated, deeply undulating; some white scales in a discal streak near the base; marginal dots and dots on the fringe brown. Hind wings luteous, with a brown border, which is gradually attenuated from the exterior to the interior angle. Length of the body 5 lines; of the wings 11 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

4. Locastra? Haraldusalis.

Mas. *Pallide subochracea; caput tegminibus duobus crassis squamosis rufo variis supra thoracem incumbentibus; palpi validi, squamosi, erecti, articulo 2o arcuato, 3o lanceolato brevi; antennæ validæ, simplices; pedes validi, pubescentes; alæ pallide purpurascente-cinereæ, breviusculæ, latiusculæ, fascia media ochracea, exteriore flavescente; anticæ basi nigricante conspersæ, apice rufescente-fuscæ.*

Male. Pale dull ochraceous, cinereous beneath. Head with two thick squamous closely-connected appendages, which are incumbent on the thorax and are partly red. Palpi stout, squamous, erect, slanting a little backward; second joint curved; third lanceolate, not more than one-fourth of the length of the second. Antennæ stout, simple. Abdomen extending a little beyond the hind wings; apical tuft rather long and thick. Legs stout, pubescent, not pilose. Wings pale purplish cinereous, rather short and broad; an ochraceous middle band, which has the brown slender exterior line between it and an outer yellowish band; fringe pale cinereous, ochraceous at the base. Fore wings with blackish speckles towards the base;

apical part reddish brown. Length of the body 4½ lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 25. MACELLA.

Mas. Corpus robustum. Proboscis mediocris. Palpi longi, validi, erecti, compressi, dense pilosi, articulo 2o longissimo subarcuato, 3o obtuso brevi. Antennæ pubescentes, setosæ, fasciculo basali squamoso denso. Abdomen alas posticas non superans, fascioulo apicali compresso. Pedes validi; anteriores pilis longis dense fasciculati; calcaria longissima. Alæ validæ, amplæ; anticæ acutæ, costa basali dilatata.

Male. Body stout. Proboscis moderately long. Palpi long, stout, vertical, compressed, thickly clothed to the tips with short hairs; second joint very long, slightly curved; third obtuse, not more than one-sixth of the length of the second. Antennæ pubescent, with two longer setæ on each joint; a thick tuft of squamous hairs at the base. Abdomen with a compressed apical tuft, not extending beyond the hind wings. Legs stout; anterior legs, including the tarsi, most densely tufted with long hairs; spurs very long. Wings stout, ample. Fore wings acute; costa dilated at the base; exterior border moderately oblique.

1. MACELLA EURITIUSALIS.

Mas. *Ferrugineo-rufa, subtus cinerea; antennæ fasciculo basali nigricante-cinereo; alæ nigro subconspersæ, lineis interiore et exteriore nigricantibus diffusis undulatis indistinctis, guttis submarginalibus nigris; anticæ punctis nonnullis albis costalibus subapicalibus.*

Male. Ferruginous-red, mostly cinereous beneath. Basal tuft of the antennæ blackish cinereous. Wings minutely speckled with black; interior and exterior lines blackish, diffuse, undulating, indistinct; submarginal dots black. Fore wings with some white costal subapical points. Length of the body 10 lines; of the wings 22 lines.

a, *b*. Sierra Leone. Presented by the Rev. D. F. Morgan.

Genus 26. EDESSENA.

Mas. Corpus robustum. Proboscis mediocris. Palpi ascendentes, longi, arcuati, pubescentes, valde compressi; articulus 3us lanceolatus, subfimbriatus, 2o valde brevior et tenuior. Antennæ longiusculæ, pubescentes, setosæ. Abdomen alas posticas paullo superans, fasciculo apicali compresso. Pedes longiusculi, pilosi, longissime fasciculati. Alæ anticæ angustæ, sublanceolatæ, margine exteriore perobliquo; posticæ amplæ, rotundatæ.

Male. Body stout. Proboscis moderately long. Palpi ascending, long, curved, pubescent, much compressed, rising high above the vertex; third joint lanceolate, slightly fringed, much shorter and more slender than the second. Antennæ rather long and slender, pubescent, furnished with two longer setæ on each joint. Abdomen extending a little beyond the hind wings; apical tuft compressed. Legs rather long, pilose, tufted with very long hairs; fore legs with a tuft of extremely long hairs at the base of the tibiæ. Fore wings narrow, somewhat lanceolate; exterior border very oblique; interior angle much rounded. Hind wings ample, rounded.

1. Edessena Gentiusalis.

Mas. *Fuscescente-cinerea; palporum articulus 2us intus testaceus; tarsi albido-testacei; alæ anticæ plaga discali nivea.*

Male. Brownish cinereous, not paler beneath. Second joint of the palpi testaceous on the inner side. Tarsi whitish testaceous. Wings alike in colour. Fore wings with a snow-white discal patch. Length of the body 9 lines; of the wings 22 lines.

a, *b*. North China. From Mr. Fortune's collection.

Genus 27. BERTULA.

Mas. Corpus sat robustum. Proboscis brevis. Palpi validi, supra caput recurvi, thoracis marginem posticum fere attingentes, articulo 2o arcuato, 3o recto dense fasciculato apice truncato. Antennæ validæ, incurvæ, breves, setis longis. Abdomen alas posticas non superans. Pedes validi, nudi, calcaribus longis; tibiæ anticæ dense fasciculatæ. Alæ fimbria lata; anticæ vix falcatæ, margine exteriore vix flexo.

Male. Body rather stout. Proboscis short. Palpi stout, recurved over the head, and extending nearly to the hind border of the thorax; second joint much curved; third straight, as long as the second, truncate at the tip, furnished with a long dense tuft of hairs, which rests on the thorax. Antennæ stout, curved, ciliated with long bristles, little more than half the length of the body. Abdomen not extending beyond the hind wings; apical tuft small. Legs stout, bare; spurs long; fore tibiæ densely tufted. Wings moderately broad; fringe broad. Fore wings hardly falcate; exterior border hardly bent in the middle.

Type, *B. abjudicalis.*

Asia.

1. Bertula abjudicalis.

Mas. *Subpurpurascente-fusca; palpi fasciculo testaceo; abdomen basi testaceum; alæ anticæ fascia obliqua testacea fusco marginata et interlineata, costam versus valde dilatata, orbicularem et reniformem includente, linea submarginali testacea denticulata undulata fusco ex parte marginata, orbiculari nigra punctiformi, reniformi alba angusta nigro submarginata, lunulis marginalibus fuscis testaceo notatis; posticæ lineis duabus testaceis fusco marginatis, lineis subtus quatuor fuscis.*

Male. Brown, with a slight purplish tinge, more cinereous beneath. Palpi with a testaceous tuft. Abdomen testaceous towards the base. Fore wings with an oblique testaceous band, which is much dilated in front, and thus forms a nearly right angle on its outer side; it is broadly but irregularly bordered with dark brown, has a brown line along each border, and contains the orbicular and reniform marks; submarginal line testaceous, denticulated, undulating, partly bordered with dark brown; orbicular mark black, punctiform; reniform white, narrow, slightly bordered with black; marginal lunules brown, marked with testaceous, as are also those of the hind wings, which have two testaceous brown-bordered slightly denticulated lines, and on the under side have four denticulated brown lines, of which the third and fourth are dilated. Length of the body 4 lines; of the wings 11 lines.

a, *b*. Ceylon. Presented by R. Templeton, Esq.
c. Ceylon. From Mr. Stevens' collection.

2. Bertula raptatalis.

Mas. *Fuscescente-cervina; palporum articulus 2us supra caput arcuatus 3o angulum vix fingens; pedes antici fasciculati; alæ anticæ subcinerascentes, lineis fuscis, basali distincta, interiore et exteriore denticulatis angustis, fascia media recta vix obliqua, submarginali undulata, punctis marginalibus fuscis; posticæ cinereæ, litura discali lineisque duabus fuscis.*

Male. Brownish fawn-colour, cinereous and speckled beneath. Second joint of the palpi not vertical, but curved over the head; third hardly forming an angle with the second. Abdomen with two apical tufts, one dorsal, the other ventral. Fore legs tufted. Fore wings with brown lines, and with a cinereous tinge; basal line distinct; interior and exterior lines denticulated, slender, having between them a straight hardly oblique band; submarginal line forming three curves; marginal points brown. Hind wings cinereous, with a brown discal mark and two brown lines which are indistinct above but conspicuous on the under side. Length of the body 4 lines; of the wings 9 lines.

a. Ceylon. Presented by R. Templeton, Esq.

3. Bertula Hisbonalis.

Mas. *Fusca, vix robusta; palpi validi, arcte applicati, supra thoracem incumbentes; articulus 3us 2o longior, fasciculo longo sericeo fuscescente-cinereo; pedes sat graciles, pubescentes, non pilosi; alæ amplæ, linea submarginali albida recta distincta obliqua, spatio marginali cinereo, lunulis marginalibus albis nigro marginatis; anticæ acutæ; reniformi c. litura parva testacea punctisque duobus exterioribus albis.*

Male. Brown, hardly stout, cinereous-brown beneath. Palpi stout, pilose, reflexed, applied close to the head, extending nearly to the hind border of the thorax; first joint rising nearly to the vertex; second a little longer than the first; third longer than the second, and with a long silky tuft of brownish cinereous hairs which extend beyond its tip. Abdomen slightly curved upward towards its tip, extending very little beyond the hind wings. Legs rather slender, pubescent, not pilose. Wings ample; submarginal line whitish, straight, distinct, extending from the tips of the fore wings to the interior angle of the hind wings; space between it and the exterior border cinereous; the other lines obsolete; marginal lunules white, bordered with black. Fore wings acute; reniform mark distinguished

by a minute testaceous mark and two white exterior points. Length of the body 7 lines; of the wings 16 lines.

Silhet. From Mr. Argent's collection.

Australasia.

4. Bertula Syrichtusalis.

Mas.—*Cinereo-fusca, robusta; palpi crassi, pilis longis testaceis fasciculati, supra thoracem incumbentes; antennæ arcuatæ, breviusculæ; thorax squamosus, antice ochraceus; abdomen apice pallide ochraceum; alæ angustæ, cupreo nitentes; anticæ apice rotundatæ, striga costali basali viridescente-ochracea, fasciculo discali incumbente, lineis fuscis, exteriore valde flexa.* Fœm.—*Palpi longi, arcuati, lanceolati, graciles, non longi.*

Male.—Stout, cinereous-brown. Palpi pubescent, very thick, reflexed over the head to the middle of the thorax, tufted with long testaceous hairs, closely joined together and with the sutures of the joints not distinguishable. Antennæ curved, rather short, very minutely pubescent. Thorax squamous, somewhat ochraceous in front. Abdomen pale ochraceous at the tip, extending a little beyond the hind wings. Wings shining, narrow, with a cupreous tinge. Fore wings rounded at the tips; costa with a basal greenish ochraceous streak, beyond which there is a discal tuft of incumbent hairs; basal, interior and exterior lines brown, the last much bent. Hind wings without markings. *Female.*—Palpi curved, slender, lanceolate, not long, rising above the vertex, but not extending beyond. Length of the body 4 lines; of the wings 10 lines.

a—*c*. Sarawak, Borneo. From Mr. Wallace's collection.

5. Bertula Alpheusalis.

Mas. *Fusca; palpi validi, squamosi, thorace incumbentes, articulis 1o et 2o arcuatis æqualibus, 3o recto longissimo; thorax ferrugineus; pedes antici dense fasciculati; tibiæ posticæ apice albæ; tarsi posteriores annulis albido-testaceis; alæ anticæ basi ferrugineæ, striga lata interiore interrupta, lineis albidis, interiore recta, exteriore subundulata, spatio intermedio cinereo ferrugineo varia, linea submarginali obscure fusca undulata indistincta, reniformi pallida angusta nigro marginata.* Fœm.—*Palpi longi, graciles, arcuati, articulo 2o intus 3oque*

testaceis, hujus fasciculo parvo nigricante; alæ anticæ subpurpurascentes, fasciis duabus albidis rufescente variis, 1a basali, 2a latissima, linea submarginali e punctis testaceis.

Male. Brown, cinereous-brown beneath. Palpi stout, squamous, resting on the thorax and extending nearly to its hind border; first and second joints curved, about equal in length; third straight, nearly cylindrical, as long as the first and second together. Antennæ rather stout. Thorax ferruginous. Abdomen extending very little beyond the hind wings. Fore legs densely tufted; posterior tarsi with whitish testaceous rings; hind tibiæ with white tips. Fore wings ferruginous at the base; lines whitish; basal half line curved; interior line straight; exterior line slightly undulating; a broad black streak extending from near the base to the disk, interrupted by the cinereous ferruginous-varied space between the interior and exterior lines; submarginal line dark brown, undulating, very indistinct; reniform mark pale, narrow, irregularly bordered with black; marginal points black, like those of the hind wings, which have no lines. Length of the body 6 lines; of the wings 16 lines. *Female.*—Brown; under side with the wings towards the base and the body mostly testaceous. Palpi long, slender, curved; second joint on the inner side and third joint testaceous, the latter with a small blackish tuft. Fore wings with a slight purplish tinge; two whitish bands; one basal and varied with ferruginous-red, the other very broad, slightly varied with red, bounded by the interior and exterior lines, containing the blackish-marked incomplete orbicular and reniform spots, forming two broad obtuse teeth on its outer side; submarginal line forming some testaceous points.

a—d. Sarawak, Borneo. From Mr. Wallace's collection.

6. Bertula Phidiasalis.

Mas. *Ferruginea; palpi arcuati, pubescentes, arcte applicati; antennæ dense fasciculato crenulatæ; pedes subpilosi; alæ sat angustæ; anticæ viridescente variæ, apice subrotundatæ, margine exteriore perobliquo, lineis interiore et exteriore nigricantibus diffusis indistinctis, hac valde flexa, spatio contiguo albido; posticæ fuscæ.*

Male. Ferruginous, rather stout. Palpi curved, pubescent, applied closely to the head and extending to its hind border; first joint not rising to the vertex; second more than twice the length of the first; third not distinguishable. Antennæ thickly crenulated, with minute tufts of setæ. Abdomen somewhat thickened towards

the obtuse tip, extending a little beyond the hind wings. Legs stout, slightly pilose. Wings rather narrow. Fore wings varied with dull green, somewhat rounded at the tips, very oblique along the exterior border; interior and exterior lines blackish, diffuse, indistinct, the latter much bent; space about them partly whitish; marginal dots brownish. Hind wings brown, without markings. Length of the body 5 lines; of the wings 13 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Australia.

7. Bertula Thyrisalis.

Mas. *Rufescente-cervina; caput cristis duabus crassis incumbentibus; palpi nigri, breves, erecti, articulo 3o longi-conico; antennæ dense ciliatæ; alæ sat angustæ; anticæ basi, nigræ, lineis interiore et exteriore nigris denticulatis flexis, spatio intermedio pallidiore, reniformi e punctis nigris; posticæ cinereæ, nitentes.*

Male. Reddish fawn-colour, cinereous beneath. Head with two thick appendages, which are incumbent and extend to the hind border. Palpi black, short, straight, erect, not rising above the vertex; third joint elongate-conical, not more than one-fourth of the length of the second. Antennæ thickly fringed with short ciliæ. Abdomen not extending beyond the hind wings. Wings rather narrow. Fore wings slightly rounded at the tips, black, with the exception of the interior border from the base to the interior line; the latter and the exterior one being black, denticulated and bent; space between the two lines paler than that between the exterior one and the border; marginal lunules black; reniform mark distinguished by some black points. Hind wings cinereous, shining. Wings beneath with denticulated brown lines and a broad brown border. Length of the body 4 lines; of the wings 11 lines.

a. Sydney. From Mr. Lambert's collection.
b, c. ———? From Mr. Milne's collection.

South America.

8. Bertula Niciasalis.

Mas. *Cervina*, B. Talausali *affinis; antennæ crassiores, apices versus convolutæ, setis longioribus; palporum articulus 3us*

penicillo pallide luteo; thorax cristatus; abdomen fuscum; tibiæ anticæ fasciculatæ, valde dilatatæ; tarsi posteriores albido fasciati; alæ lineis albis, linea interiore arcuata, exteriore recta lata obliqua, submarginali tenui postice angulata, reniformi lineari tenuissima alba.

Male. Fawn-colour, cinereous beneath, in structure like *B. Talausalis.* Antennæ thicker, curled towards the tips; bristles longer. Third joint of the palpi with a fan-shaped pale luteous tuft. Thorax crested. Abdomen brown. Fore tibiæ tufted and much dilated; posterior tarsi with whitish bands. Wings with white lines; basal and interior lines curved, slightly denticulated, obsolete in the hind wings; exterior line broad, straight, oblique, very remote from the interior one; submarginal line slender, approaching the exterior one hindward, forming an angle near the interior border of the fore wings; marginal line white. Fore wings with minute blackish flecks; reniform mark distinguished by a very slender white line. Hind wings brown. Length of the body 8 lines; of the wings 18 lines.

a. Brazil. From Mr. Wallace's collection.

9. Bertula Talausalis.

Mas. *Fusca; palpi longissimi, thoracis marginem posticum attingentes; articulus* 1us *arcuatus, intus ochraceus;* 2us *vix ochraceus,* 1o *longior;* 3us 2o *longior, penicillo denso longissimo pallide luteo; antennæ longæ; abdomen alas posticas superans; pedes antici dense fasciculati; alæ anticæ lineis nigris, interiore et exteriore denticulatis indistinctis antice subobsolotis, submarginali undulata intus lutescente marginata; orbiculari alba punctiformi, reniformi nigra concisa intus albo punctata; posticæ linea submarginali albida indistincta subundulata.*

Male. Brown, cinereous-brown beneath. Palpi very long, reflexed to the hind border of the thorax; first joint curved, ochraceous on the inner side, rising to the vertex; second very slightly curved, longer than the first; third longer than the second, slightly curved upward at the tip, with a dense and very large fan-shaped tuft of long pale luteous hairs. Antennæ long, slender, with two rather long bristles on each joint. Abdomen lanceolate, extending rather beyond the hind wings, slightly compressed at the tip. Fore legs densely tufted. Fore wings with black lines; interior and ex-

terior lines denticulated, indistinct, almost obsolete in front; submarginal line undulating, bordered with pale luteous on its inner side, and having a pale luteous streak along its outer side by the interior angle; orbicular mark white, punctiform; reniform black, concise, with a white point by its inner side. Hind wings with an indistinct whitish slightly undulating submarginal line; fringe hoary. Length of the body 8½ lines; of the wings 20 lines.

Fœm. *Ferrugineo-lutea; alæ anticæ cinereæ, spatio basali ferrugineo-luteo, fascia marginali testacea cinereo varia, orbiculari alba, reniformi e lituris duabus nigris, una albo notata; posticæ fuscescente-cinereæ.*

Female. Ferruginous-luteous, cinereous beneath. Abdomen cinereous. Fore wings cinereous, except between the base and the white orbicular mark; reniform indicated by two small black marks, the inner one having a white centre; a testaceous marginal band which is varied with cinereous, and has a well-defined undulating interior border. Hind wings brownish cinereous. Length of the body 6 lines; of the wings 18 lines.

a, b. Venezuela. From Mr. Dyson's collection.

Genus 28. ADRAPSA.

Mas. Corpus sat validum. Proboscis breviuscula. Palpi erecti, longi, compressi, graciles, subfasciculati; articulus 3us linearis, 2o non brevior. Palpi maxillares lanceolati, bene determinata. Antennæ subtus pectinatæ, apud medium incrassatæ et subfasciculatæ. Abdomen sat planum. Pedes longiusculi, sat graciles, calcaribus longis; antici breves, validi, tibiis fasciculatis, metatarso incrassato. Alæ vix denticulatæ; anticæ apice rectangulatæ, margine exteriore subobliquo vix convexo.

Male. Body moderately stout. Proboscis rather short. Palpi erect, long, compressed, slender; second and third joints slightly tufted above; third linear, as long as the second. Maxillary palpi lanceolate, well-developed. Antennæ pectinated on the under side, incrassated and with minute tufts for a space before the middle. Abdomen rather flat, apical tuft small. Posterior legs bare, rather long and slender; spurs long. Fore femora and fore tibiæ short, stout; fore tibiæ tufted; first joint of the fore tarsi incrassated, slightly tufted. Wings moderately broad, very slightly denticulated.

Fore wings rectangular at the tips; exterior border slightly oblique, hardly convex.

This genus associates better with the *Herminidæ* than with any other family, notwithstanding the development of the maxillary palpi.

1. ADRAPSA ABLUALIS.

Cinereo-fusca; alæ lineis interiore et exteriore rectis obliquis, hac albida, illa obscure fusca, submarginali albida denticulata indistincta incompleta; anticæ reniformi obscure fusca guttam albidam includente.

Male. Cinereous-brown. Wings with the usual three lines; interior and exterior lines straight, oblique; interior line dark brown; exterior line whitish; submarginal line whitish, denticulated, indistinct, incomplete. Fore wings with the reniform mark dark brown, containing a whitish dot. Length of the body 5 lines; of the wings 11 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Genus 29. BOCANA.

Corpus robustum. Proboscis brevis. Palpi graciles, longi, ascendentes; articulus 2us valde arcuatus; 3us acutus. Antennæ corporis dimidio longiores. Abdomen alas posticas non superans. Pedes nudi, calcaribus longis. Alæ latiusculæ; anticæ angulo apicali subrotundato, margine exteriore subconvexo subobliquo.

Body stout. Proboscis short. Palpi slender, long, ascending; second joint much curved; third acute, variable as to shape, somewhat shorter than the second. Antennæ more than half the length of the body. Abdomen not extending beyond the hind wings. Legs bare, moderately stout; spurs long. Wings rather broad. Fore wings with the apical angle slightly rounded; exterior border slightly convex and oblique.

Type, *B. manifestalis.*

Asia.

1. Alæ anticæ margine non flexo.
A. Alæ non pallidæ.
a. Alæ anticæ macula costali subapicali. - ophiusalis, *Walk.*
b. Alæ anticæ macula nulla costali.
a. Alæ anticæ plaga nulla pallida.
i. Alæ anticæ orbiculari alba.
* Alæ anticæ linea exteriore flexa. hypenalis, *Walk.*
** Alæ anticæ linea exteriore non flexa.
manifestalis, *Walk.*
ii. Alæ anticæ orbiculari nigra. - jutalis, *Walk.*
b. Alæ anticæ plaga pallida. - - - gravatalis, *Walk.*
B. Alæ pallidæ. - - - - - turpatalis, *Walk.*
B. Alæ anticæ margine exteriore flexo.
A. Palpi articulo 3o longissima. - - - vagalis, *Walk.*
B. Palpi articulo 3o non longissimo. - tumidalis, *Walk.*

Group 1.

1. Bocana manifestalis.

Fœm. *Ferrugineo-fusca; palporum articulus 3us lanceolatus nudus subarcuatus 2o vix brevior; alæ lineis exteriore et submarginali nigricante-fuscis denticulatis testaceo extus submarginatis, litura subtus discali nigra; anticæ linea interiore distincta intus pallido marginata, orbiculari et reniformi albis parvis, hac nigro marginata.*

Female. Ferruginous-brown. Third joint of the palpi lanceolate, bare, slightly curved, very little shorter than the second. Antennæ very minutely setulose. Wings with the exterior and submarginal lines blackish brown, denticulated, incompletely bordered with testaceous on the outer side; under side rather paler, with a black discal mark on each wing. Fore wings with the interior line distinct, having a pale inner border; orbicular and reniform marks pure white, small; the latter with a black border. Length of the body 5 lines; of the wings 13 lines.

a. Ceylon. From Mr. Stevens' collection.

2. Bocana vagalis.

Fœm. *Ferrugineo-fusca, sat gracilis; palporum articulus 3us arcuatus, linearis, gracillimus, apice acuminatus, 2o paullo longior; antennæ compressæ; abdomen alas posticas paullo superans; alæ anticæ margine exteriore subflexo, lineis nigricante-fuscis indistinctis, interiore subrecta, exteriore undulata antice albido submarginata, submarginali guttulari, orbiculari e gutta nigricante.*

Female. Ferruginous-brown, rather slender, mostly pale cinereous beneath. Third joint of the palpi curved, linear, very slender, acuminated at the tip, a little longer than the second. Antennæ compressed. Abdomen extending a little beyond the hind wings. Fore wings with the exterior border slightly bent; lines blackish brown, indistinct; interior line nearly straight; exterior line undulating, slightly bordered with white in front; submarginal line composed of dots; three white costal subapical points; orbicular mark forming a blackish dot. Wings beneath with a denticulated brown line and submarginal brown dots. Length of the body 4 lines; of the wings 7½ lines.

a. Ceylon. From Mr. Stevens' collection.

3. Bocana jutalis.

Fœm. *Purpurascente-fusca; palporum articulus 3us gracillimus pubescens apice nudus; alæ lineis viridescente-fuscis indistinctis, punctis elongatis submarginalibus testaceis, lunulis marginalibus obscure fuscis pallido extus marginatis; anticæ orbiculari e gutta atra, reniformi albido-testacea nigro marginata.*

Female. Brown, with a purple tinge; under side more or less speckled with pale testaceous. Third joint of the palpi very slender, pubescent, except towards the tip, which is very acute. Antennæ very minutely setulose. Wings with the lines greenish brown, indistinct; submarginal line accompanied by some irregular elongated pale testaceous points; marginal lunules dark brown, with pale outer borders; under side with larger testaceous points, and with a whitish discal mark on each wing. Fore wings with the orbicular mark forming a deep black dot; reniform whitish testaceous, with a black border. Length of the body 5 lines; of the wings 13 lines.

a. Ceylon. Presented by R. Templeton, Esq.

4. BOCANA OPHIUSALIS.

Fœm. *Pallide ferrugineo-fusca; palporum articulus 3us linearis subarcuatus 2o non brevior; alæ anticæ lineis undulatis denticulatis plagaque costali subapicali obscure fuscis, orbiculari e gutta albida, reniformi e striga nigra transversa arcuata interrupta.*

Female. Pale ferruginous-brown, more cinereous beneath. Third joint of the palpi linear, acute at the tip, slightly curved, as long as the second. Abdomen and hind wings pale brown. Fore wings with the lines slight, undulating, denticulated, dark brown; a costal subapical subquadrate dark brown patch; orbicular mark forming a whitish dot; reniform indicated by a curved interrupted transverse black streak. Length of the body 5½—6½ lines; of the wings 13—15 lines.

a—c. Ceylon. From Mr. Stevens' collection.

Group 2.

Mas et fœm.—Corpus sat robustum. Proboscis mediocris. Palpi lanceolati, recurvi, pubescentes, articulo 2o valde arcuato, 2o vix arcuato. Antennæ corporis dimidio valde longiores. Pedes subnudi, sat validi, calcaribus longis. Alæ amplæ; anticæ apice rectangulatæ, margine exteriore subobliquo fere recto. *Mas.*—Antennæ pubescentes, ante medium subincrassatæ et subfasciculatæ. Abdomen alas posticas superans. Tibiæ anticæ subincrassatæ. *Fœm.*—Antennæ simplices. Abdomen alas posticas non superans.

Male and female.—Body moderately stout. Proboscis moderately long. Palpi lanceolate, pubescent, recurved over the vertex; second joint much curved; third hardly curved, much shorter than the second. Antennæ much more than half the length of the body. Legs rather stout, almost bare; spurs long. Wings ample. Fore wings rectangular at the tips; exterior border nearly straight, slightly oblique. *Male.*—Antennæ pubescent, slightly thickened and tufted before the middle. Abdomen slightly extending beyond the hind wings. Fore tibiæ somewhat thickened. *Female.*—Antennæ simple. Abdomen not extending beyond the hind wings.

5. Bocana turpatalis.

Mas et fœm.—*Cervina; alæ lineis interiore et exteriore fuscescentibus denticulatis gracillimis; submarginali albida obliqua subrecta; anticæ reniformi e striga fuscescente.* Mas.—*Alæ anticæ squamis discalibus subelevatis.*

Male and female.—Fawn-colour. Abdomen, under side and hind wings mostly cinereous. Wings with the interior and exterior lines brownish, denticulated, very slender; submarginal line whitish, oblique, nearly straight. Fore wings with the reniform mark slightly indicated by a brownish streak. Hind wings with the lines more distinct on the under side. *Male.*—Fore wings with slightly elevated scales in the disk towards the base. Length of the body 6 lines; of the wings 12—13 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b. Ceylon. From Mr. Stevens' collection.

6. Bocana hypenalis.

Fœm. *Ferrugineo-fusca; palpi longi, ascendentes, pubescentes, articulo 2o valde arcuato, 3o valde aciculari postice subfasciculato; pedes pubescentes, non pilosi; alæ amplæ, fasciis tribus diffusis subpurpurascentibus, 3o marginali, lineis denticulatis, interiore et exteriore ferrugineo-fuscis, submarginali cinerea, reniformi parva angusta albida.*

Female. Ferruginous-brown, ferruginous-cinereous beneath. Palpi long, pubescent, rising high above the vertex; second joint much curved; third very acicular, slightly tufted on the hind side except towards the tip, a little shorter than the second. Antennæ very minutely setose. Legs pubescent, not pilose. Wings ample, with three diffuse slightly purplish bands; the first and second including the denticulated interior and exterior lines of the ground-colour; third band marginal; submarginal line denticulated, cinereous; orbicular mark brown, punctiform; reniform and a corresponding mark on the hind wings white, small, narrow, most distinct on the under side. Length of the body 6 lines; of the wings 14 lines.

a Ceylon. Presented by R. Templeton, Esq.

Group 3.

Fœm. Corpus sat validum. Proboscis brevis. Palpi longi, supra caput recurvi, articulo 2o valde arcuato, 3o recto lanceolato. Antennæ graciles, simplices, corporis dimidio vix longiores. Abdomen sat planum, alas posticas vix superans, segmento apicali longo supra sulcato. Pedes validi, calcaribus longis. Alæ longæ, non latæ; anticæ apice subrotundatæ, margine exteriore subobliquo.

Female. Body moderately stout. Proboscis short. Palpi long, recurved over the head to the fore border of the thorax; second joint much curved; third straight, lanceolate, hardly half the length of the second. Antennæ slender, simple, little more than half the length of the body. Abdomen rather flat, extending a little beyond the hind wings; apical segment long, furrowed above. Legs stout; spurs long. Wings long, not broad. Fore wings with the apical angle slightly rounded; exterior border slightly oblique.

Type, *B. gravatalis*.

7. Bocana gravatalis.

Fœm. *Purpurascente-fusca; thorax squamosus; alæ anticæ lineis testaceis denticulatis nigro submarginatis, linea exteriore antice dilatata costam fingente; posticæ cinereo-fuscæ, litura subtus discali nigricante fasciisque duabus exterioribus pallidis.*

Female. Purplish brown. Thorax squamous. Abdomen, hind wings and under side cinereous-brown. Fore wings with the lines testaceous, denticulated, slightly and incompletely bordered with black; anterior half of the exterior line dilated and forming a patch; marginal points blackish. Hind wings beneath with a blackish discal mark and with two pale exterior bands. Length of the body 5 lines; of the wings 12 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Group 4.

Fœm. Corpus robustum. Proboscis brevis. Palpi longi, supra caput recurvi; articulus 2us validus, arcuatus; 3us gracilis, lanceolatus, subtus fasciculatus. Abdomen alas posticas non superans. Pedes validi, pubescentes, calcaribus longis. Alæ mediocres; anticæ vix falcatæ, margine exteriore obliquo subconvexo.

Female. Body stout. Proboscis short. Palpi long, extending over the head; second joint stout, curved; third slender, lanceolate, shorter than the second, having on the under side a slight tuft, which is abruptly terminated before the tip. Abdomen not extending beyond the hind wings. Legs stout, pubescent; spurs long. Wings moderately broad. Fore wings with the apical angle sharply formed, but hardly falcate; exterior border slightly convex, moderately oblique.

8. BOCANA TUMIDALIS.

Fœm. *Rufescente-fusca; abdomen fascia basali angusta testacea; alæ anticæ lineis testaceis, interiore recta obliqua, exteriore subundulata extus flexa nigro submarginata, submarginali denticulata indistincta nigro marginata, orbiculari nigra punctiformi, reniformi e striga transversa alba; posticæ cinereæ, linea exteriore testacea.*

Female. Reddish brown, mostly pale cinereous beneath. Abdomen with a slender testaceous band at the base. Fore wings with testaceous lines; interior line straight, oblique; exterior line slightly undulating, bent outward in the middle, with a slight black border; submarginal line denticulated, indistinct, but with a broader black border; marginal lunules black; orbicular mark black, punctiform; reniform distinguished by a white transverse streak. Hind wings cinereous, with a testaceous exterior line; under side with the lines more distinct. Length of the body 3½ lines; of the wings 9 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Australasia.

A. Alæ margine exteriore non pallidiore.
  A. Alæ anticæ macula nulla nivea.
    a. Alæ anticæ costa non pallidiore.
      a. Alæ non pallidæ.
        i. Alæ anticæ reniformi non alba.
          * Alæ non amplæ.
            † Alæ anticæ fascia pallidiore. Erythusalis, *Walk.*
            †† Alæ anticæ fascia nulla pallidiore.
              ‡ Alæ anticæ spatio medio pallidiore.
                § Alæ anticæ spatio medio non iridescente.
                  Momusalis, *Walk.*

§§ Alæ anticæ spatio medio iridescente.
Hemusalis, *Walk.*

‡‡ Alæ anticæ apud medium non pallidiores.
Biasalis, *Walk.*

** Alæ amplæ. - - - Amphusalis, *Walk.*

i. Alæ anticæ reniformi alba. - Gnetusalis, *Walk.*

b. Alæ pallidæ.

i. Alæ linea submarginali pallidiore. Phædrusalis, *Walk.*

ii. Alæ linea nulla pallidiore. - Eudoxusalis, *Walk.*

B. Alæ anticæ costa pallidiore. - - Tityrusalis, *Walk.*

B. Alæ anticæ macula nivea. - - Silenusalis, *Walk.*

B. Alæ margine exteriore pallidiore. - - Schaldusalis, *Walk.*

9. Bocana Hemusalis.

Fœm. *Fusca; palpi longi, compressi, pilosi, arcuati, articuli 3i fasciculo parvo nigro; alæ anticæ apice acutæ, lineis interiore et exteriore fuscis subundulatis, fascia intermedia latissima opalino-cinerea, orbiculari et reniformi fusco marginatis; posticæ fuscescente-cinereæ, lineis exteriore et submarginali supra pallidis, subtus fuscis,*

Female. Brown. Abdomen, hind wings and under side brownish cinereous. Palpi long, compressed, pilose, curved, ascending high above the head; third joint with a slight black tuft, bare and very acute towards the tip, full half the length of the second. Antennæ with distinct setæ. Wings moderately broad. Fore wings with the apical angle well defined; exterior border moderately oblique; a very broad cinereous band with opaline reflections, bordered by the interior and exterior lines, which are brown and slightly undulating; middle line indistinct, passing on the outer side of the reniform mark; marginal lunules brown; orbicular and reniform marks bordered with brown. Hind wings with the exterior and submarginal lines pale above, brown and more distinct on the under side, where the discal lunule is also apparent. Length of the body 4½ lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

10. Bocana Erythusalis.

Mas et fœm. *Fusca, sat robusta; palpi valde arcuati,* maris *densissime fasciculati,* fœm. *subfasciculati; pedes albido fasciati; alæ sat angustæ; anticæ apice subrotundatæ, lineis e*

punctis albidis, fascia media diffusa albida postice attenuata lineam fuscam undulatam denticulatam includente, reniformi informi nigricante; posticæ cinereæ, linea submarginali subtus albida denticulata, exteriore obscura.

Male and female. Brown, rather stout. Abdomen, hind wings and under side cinereous. Palpi compressed, much curved, ascending above the vertex, most densely tufted in the male, slightly tufted and with the third joint fringed, except at the tip in the female. Antennæ very slender; setæ very minute. Tibiæ and joints of the tarsi with whitish bands. Wings rather narrow. Fore wings somewhat rounded at the tips; lines composed of whitish points; a diffuse whitish middle band, which is attenuated hindward, contains an undulating denticulated brown line, and has by its inner side the reniform mark, which is represented by a blackish irregular lunule. Hind wings without lines above; under side with the submarginal line whitish, denticulated, distinct; exterior line dark, denticulated, indistinct. Length of the body 4½ lines; of the wings 11½ lines.

a, *b*. Sarawak, Borneo. From Mr. Wallace's collection.

Var. Fœm. *Alæ anticæ fasciis duabus diffusis subcervinis, 2a lineam fuscam denticulatam includente, linea submarginali sordide albida denticulata interrupta, orbiculari et reniformi obsoletis; posticæ fuscescente-cinereæ, lineis supra nullis, lunula obscure fusca lineaque submarginali albida subtus conspicuis.*

Var. Female. Fore wings with two diffuse dull fawn-coloured bands; one near the base; the other before the middle, containing a denticulated brown line; submarginal line dingy whitish, denticulated, interrupted; marginal points black, elongated; orbicular and reniform marks obsolete. Hind wings without lines above, but with a distinct whitish submarginal line, and with a dark brown discal lunule on the under side. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

11. Bocana Momusalis.

Fœm. *Cinereo-fusca; palpi longi, graciles, fimbriati, subarcuati; alæ anticæ purpurascente-roseo suffusæ, lineis pallidis undulatis denticulatis indistinctis, orbiculari et reniformi indis-*

tinctis fusco submarginatis ; posticæ fuscescente-cinereæ, lunula discali fusca, lineis exteriore et submarginali pallidis subrectis.

Female. Cinereous-brown. Abdomen, hind wings and under side brownish cinereous. Palpi compressed, long, slender, fringed, slightly curved, ascending high above the head ; third joint bare towards the tip, more than half the length of the second. Antennæ with distinct setæ. Fore wings with a purplish rosy tinge; lines pale, undulating, denticulated, not distinct ; orbicular and reniform marks indistinct, slightly bordered with brown ; marginal lunules brown, like those of the hind wings, which have a brown discal lunule and pale nearly straight exterior and submarginal lines. Length of the body 4 lines ; of the wings 11 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

12. Bocana Silenusalis.

Mas et fem. *Obscure fusca ; palpi longi, articulis* 1*o et* 2*o subarcuatis intus testaceis,* 2*o antice subfimbriato,* 3*o gracillimo ; antennæ filiformes, maris subserratæ ; pedes fasciculati, tarsis posterioribus testaceis ; alæ anticæ vix latæ, lineis interiore et exteriore testaceis denticulatis fusco marginatis apud costam dilatatis, submarginali e gutta costali testacea, orbiculari et reniformi niveis, hac maxima, illa punctiformi.*

Male and female. Dark brown. Palpi long ; second and third joints slightly curved, testaceous on the inner side; second slightly fringed in front; third very slender, a little shorter than the second. Antennæ filiform, not much shorter than the body, minutely serrated, and with a short bristle on each tooth in the male, hardly setose in the female. Legs tufted ; posterior tarsi testaceous. Fore wings hardly broad; interior and exterior lines testaceous, denticulated, indistinct, bordered with dark brown, widened on the costa ; submarginal line indicated by a testaceous costal dot; orbicular and reniform marks snow-white ; the former punctiform ; the latter very large, hardly excavated on the outer side. Hind wings with the lines more distinct beneath, and with a large blackish discal mark. Length of the body 6 lines; of the wings 14 lines.

a, *b*. Sarawak, Borneo. From Mr. Wallace's collection.

13. Bocana Phædrusalis.

Fœm. *Pallide cinereo-fusca; palpi longi, pubescentes, articulo 2o subarcuato subfimbriato, 3o vix arcuato; alæ linea submarginali pallide cinerea recta intus fusco marginata postice angulata, lineis interiore et exteriore obscure fuscis valde denticulatis; anticæ punctis marginalibus nigris, reniformi fusca, fimbria basi pallida.*

Female. Pale cinereous-brown. Abdomen, hind wings and under side cinereous. Palpi long, pubescent; second joint slightly curved and fringed; third hardly curved, a little shorter than the second. Wings with the submarginal line pale cinereous, straight, bordered with brown on the inner side, forming an obtuse angle near the interior angle of the hind wings, obsolete beneath; interior and exterior lines dark brown, much denticulated, almost obsolete in the hind wings. Fore wings with black marginal points; reniform mark brown, irregular, with a darker border; fringe pale at the base. Length of the body 4 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

14. Bocana Schaldusalis.

Mas et fœm. *Cervina, robusta; palpi pubescentes, reversi, articulo 2o arcuato, 3o recto breviore aciculari* fœm. *fimbriato; pedes validi*, maris *densissime et longissime fimbriati*, fœm. *subpilosi; alæ fascia marginali pallida; anticæ lineis interiore et exteriore fuscis, hac undulata, illa subrecta, reniformi e linea arcuata.*

Male and female. Stout, fawn-colour, more cinereous beneath. Palpi pubescent, reverted near the head to the fore border of the thorax; second joint curved; third acicular, straight, much shorter than the second, fringed behind in the female. Antennæ with two very minute tufts of setæ on each joint. Abdomen rather long, extending a little beyond the hind wings, with a rather long apical tuft in the male. Legs stout, densely fringed with very long hairs in the male, slightly pilose in the female. Wings moderately broad, with a pale marginal band. Fore wings with the interior and exterior lines brown, slender; the former nearly straight and upright, the latter undulating; reniform mark forming a curved line; exterior border slightly oblique in the male, more oblique in

the female. Hind wings cinereous, brownish towards the exterior border. Length of the body 8 lines; of the wings 16 lines.

a—c. Sarawak, Borneo. From Mr. Wallace's collection.

15. Bocana Biasalis.

Mas. Fusca; palpi longi, ascendentes, articulo 2o subarcuato subfimbriato, 3o lanceolato recto pubescente breviore; pedes validi; tibiæ anticæ fasciculis longis; alæ anticæ subpurpurascentes, lineis obscure fuscis undulatis diffusis, spatio marginali pallido, macula subapicali nigra, margine exteriore flexo, orbiculari et reniformi obsoletis; posticæ lineis pallidis.

Male. Brown, brownish cinereous beneath. Palpi long, rising above the vertex; second joint slightly curved and slightly fringed; third lanceolate, straight, pubescent, rather shorter than the second. Antennæ with rather long setæ. Abdomen extending a little beyond the hind wings; apical tuft small. Legs stout; fore tibiæ tufted with long hairs. Fore wings moderately broad, with a purplish tinge; lines dark brown, undulating, diffuse; exterior border bent; a marginal space extending between the tips and the bend, rather paler than the wing elsewhere and including a black subapical spot; orbicular and reniform marks obsolete. Hind wings brownish cinereous; lines paler, denticulated, indistinct. Length of the body 4 lines; of the wings 9 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

16. Bocana Amphusalis.

Fœm. *Obscure fusca, vix robusta; palpi longi, ascendentes, articulo 2o subarcuato pubescente, 3o breviore nudo lanceolato gracillimo; pectus pilis longissimis; pedes longiusculi, pubescentes; alæ amplæ, lineis nigricante-fuscis undulatis sat diffusis, submarginali cinerea denticulata indistincta, orbiculari et reniformi nigricante-fuscis.*

Female. Dark brown, hardly stout, cinereous-brown beneath. Palpi long, ascending; second joint slightly curved, pubescent; third bare, lanceolate, very slender, shorter than the second. Antennæ with two rather long setæ on each joint. Pectus clothed with very long hairs. Abdomen not extending beyond the hind wings. Legs rather long, pubescent. Wings ample; lines blackish

brown, undulating, rather diffuse; submarginal line cinereous, denticulated, indistinct. Fore wings with the orbicular and reniform marks blackish brown, the latter forming a lunule beneath like that of the under side of the hind wings. Length of the body 6 lines; of the wings 15 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

17. Bocana Gnetusalis.

Fœm. *Fusca; palpi longi, ascendentes; articulus 2us arcuatus, pubescens; 3us lanceolatus, gracilis, subarcuatus, 2o non brevior; pedes pubescentes, sat validi; alæ lineis denticulatis pallidioribus marginatis valde indistinctis; anticæ apice acutæ, orbiculari et reniformi albis, hac perangusta, illa punctiformi elongata.*

Female. Brown; under side cinereous-brown, paler about the wing lines, which are brown, denticulated and indistinct. Palpi long, ascending above the vertex; second joint curved, pubescent; third lanceolate, slender, slightly curved, as long as the second. Antennæ with very minute setæ. Abdomen extending a little beyond the hind wings. Legs rather stout, pubescent. Wings moderately broad; lines denticulated, paler than the ground-colour, but with darker borders, very indistinct; marginal lunules dark brown, with testaceous outer borders. Fore wings with acutely rectangular tips; orbicular and reniform marks white; the former punctiform, elongated, the latter very narrow. Length of the body 4 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

18. Bocana Eudoxusalis.

Fœm. *Pallide cervina; palpi longi, graciles, ascendentes; articulus 2us pubescens, valde arcuatus; 3us nudus, lanceolatus, gracillimus, vix arcuatus, 2o vix brevior; thorax squamosus; pedes sat graciles, subnudi; alæ lineis nigricantibus denticulatis valde interruptis, submarginali subobsoleta; anticæ apice acutæ, orbiculari et reniformi nigricantibus, hac informi, illa punctiformi.*

Female. Pale fawn-colour, testaceous beneath. Palpi long, slender, rising high above the vertex; second joint pubescent, much curved; third bare, lanceolate, very slender, hardly curved, nearly as long as the second. Antennæ with very minute setæ. Thorax

squamous. Abdomen not extending beyond the hind wings. Legs rather slender, almost bare. Wings moderately broad; lines blackish, denticulated, very much interrupted; submarginal line almost obsolete; marginal points black. Fore wings acutely rectangular at the tips; the orbicular and reniform marks blackish, the former punctiform, the latter irregular. Wings beneath speckled with brown; the lines also brown, and more distinct. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

19. Bocana Tityusalis.

Fœm. *Fusca; palpi longi, ascendentes; articulus 2us pubescens, subarcuatus, extus obscurior; 3us testaceus, gracillimus, vix arcuatus, 2o non brevior; thorax antice testaceus; alæ linea interiore fusca subobsoleta, exteriore et submarginali pallide cinereis, denticulatis, hac apud costam alba, reniformi e lunula nigra albo notata, litura subtus apicali subquadrata.*

Female. Brown, mostly cinereous beneath. Palpi long, rising high above the vertex; second joint pubescent, slightly curved, dark brown on the outer side; third testaceous, very slender, very slightly curved, as long as the second. Antennæ very minutely setose. Thorax with a testaceous front band, which is continued along the costa of the fore wings for more than half the length. Wings with the interior line brown, almost obsolete; exterior line pale cinereous, slightly denticulated in the fore wings; submarginal line pale cinereous, denticulated; indistinct, white and distinct towards the costa of the fore wings; marginal lunules brown, bordered with cinereous on the outer side. Fore wings with the reniform mark represetned by a black white-marked lunule; under side with a subquadrate apical mark. Length of the body 4¼ lines; of the wings 11 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Australia.

20. Bocana metisalis.

Mas. *Fusca, sat gracilis; palpi pubescentes, reflexi, vix robusti; articulus 2us arcuatus; 3us lanceolatus, 2o valde brevior; pedes subnudi; alæ anticæ apice subrotundatæ, dimidio*

interiore subcervino, lineis exteriore et submarginali denticulatis, hac pallido notata, reniformi lunari nigra; posticæ lineis subtus distinctis.

Male. Brown, rather slender, mostly cinereous beneath. Palpi pubescent, hardly stout, reflexed over the head to the fore border of the thorax; second joint curved; third lanceolate, much shorter than the second. Antennæ slender, hardly serrated, with short setæ. Abdomen not extending beyond the hind wings; apical tufts small. Legs moderately stout, almost bare. Wings moderately broad. Fore wings slightly rounded at the tips; interior half, excepting the base, dull fawn-colour; this hue bounded by the denticulated exterior line; submarginal line brown, denticulated, with a pale mark on each tooth; marginal points black; reniform mark represented by a black lunule, which, like that of the hind wings, is most apparent beneath. Hind wings brownish cinereous; lines distinct beneath. Length of the body 4½ lines; of the wings 11 lines.

a. Moreton Bay. From Mr. Diggles' collection.

Africa.

21. Bocana Linusalis.

Mas. *Testacea; palpi graciles, pubescentes, reflexi; articulus 2us valde arcuatus; 3us lanceolatus, 2o valde brevior; pedes sat graciles, subnudi; alæ anticæ apice subrotundatæ, linea submarginali albida subrecta; posticæ albidæ.*

Male. Testaceous, whitish testaceous beneath. Palpi compressed, slender, pubescent, reflexed over the head to the fore border of the thorax; second joint much curved; third lanceolate, much shorter than the second. Antennæ stout; setæ rather long. Abdomen rather long, extending a little beyond the hind wings; apical tuft small. Legs rather slender, almost bare. Wings moderately broad. Fore wings somewhat rounded at the tips, with a whitish almost straight submarginal line; marginal lunules pale brown; the other markings obsolete; exterior border slightly oblique. Hind wings whitish. Length of the body 4½ lines; of the wings 11 lines.

a. Congo. Presented by Sir J. Richardson.

22. Bocana Æsopusalis.

Fœm. *Fusca; palpi ascendentes, arcuati, pubescentes, intus testacei; articulus 3us lanceolatus, 2o brevior; pedes pubescentes, sat validi; alæ anticæ nigricante-cinereo suffusæ, apice subrotundatæ, margine exteriore vix obliquo, lineis interiore et exteriore nigricantibus denticulatis valde indistinctis, submarginali e punctis testaceis, orbiculari et reniformi subobsoletis.*

Female. Brown. Abdomen, hind wings and under side mostly cinereous. Palpi moderately long, compressed, curved, pubescent, testaceous on the inner side, rising above the head and above the fore border of the thorax; third joint lanceolate, shorter than the second. Abdomen extending a little beyond the hind wings. Legs pubescent, moderately stout. Wings moderately broad. Fore wings with a blackish cinereous tinge, slightly rounded at the tips; exterior border hardly oblique; interior and exterior lines blackish, denticulated, very indistinct; submarginal line composed of testaceous points; marginal points black; orbicular and reniform marks almost obsolete. Hind wings with the lines obsolete above, distinct beneath. Length of the body 5 lines; of the wings 12 lines.

a. South Africa. Presented by Dr. A. Smith.

South America

23. Bocana Pharusalis.

Mas et fœm. *Cervina; pedes validi, pubescentes, tarsis subtus testaceis; alæ longiusculæ; anticæ apud costam rectæ, apice rotundatæ, fascia submarginali recta obliqua albida-glauca interlineata intus marginata extus diffusa, lineis interiore et exteriore fuscis denticulatis, orbiculari et reniformi obsoletis.* Mas.—*Palpi longissimi, ascendentes; articulus 2us arcuatus; 3us rectus, subfasciculatus, 2o longi.* Fœm.—*Palpi valde breviores; articulus 2us valde arcuatus; 3us lanceolatus, 2i dimidio vix longior.*

Male and female. Fawn-colour, cinereous beneath. Abdomen extending a little beyond the hind wings. Legs stout, pubescent; tarsi testaceous beneath. Wings rather long, moderately broad; marginal festoon blackish. Fore wings very straight along the

costa, slightly rounded at the tips, moderately oblique along the exterior border; a straight oblique whitish glaucous interlined submarginal band, which is partly abbreviated by the costa and extends diffusedly to the exterior border, and has the wing along its inner side darker than elsewhere, and is indistinctly apparent on the hind wings, which are mostly cinereous; interior and exterior lines brown, slender, denticulated, indistinct; orbicular and reniform marks obsolete. *Male.*—Palpi very long, rising high above the head; first joint moderately long; second curved, much longer than the first; third straight, a little longer than the second, slightly tufted with long hairs. *Female.*—Palpi pubescent, very much shorter than those of the male; second joint much curved; third lanceolate, hardly more than half the length of the second. Length of the body 6 lines; of the wings 16 lines.

a, *b*. Venezuela. From Mr. Dyson's collection.

24. Bocana Orionalis.

Fœm. *Cervina; palpi arcuati, pubescentes, longiusculi; articulus 3us acicularis, 2o vix brevior; pedes pubescentes, longiusculi, tibiis anticis subdilatatis subtus testaceis; alæ amplæ, fascia marginali pallide cinerea; anticæ acute rectangulatæ, reniformi alba punctiformi.*

Female. Fawn-colour. Abdomen, hind wings and under side brownish cinereous. Palpi curved, pubescent, rather long, rising above the vertex; third joint acicular, very nearly as long as the second, with a few hairs near the tip, which is very acute. Antennæ slender, with two moderately long setæ on each joint. Abdomen hardly extending beyond the hind wings. Legs pubescent, rather long; fore tibiæ slightly dilated, testaceous beneath, except at the base. Wings ample, with a pale cinereous marginal band, which is almost obsolete on the fore part of the hind wings. Fore wings acutely rectangular at the tips, slightly convex and very slightly oblique along the exterior border; marginal dots brown; reniform mark white, punctiform. Length of the body 7 lines; of the wings 19 lines.

Brazil. In Mr. Saunders' collection.

Genus 30. LIBISOSA.

Mas.—Corpus robustum, læve; palpi compressi, arcuati, fimbriati, reversi; articulus 3us vix arcuatus, 2o non brevior. Antennæ pubescentes, setosæ, ante medium incrassatæ. Abdomen alas posticas non aut vix superans. Pedes validi, dense fasciculati. Alæ anticæ apud costam rectæ, apice subrectangulatæ. *Fœm.* — Palpi lanceolati, arcuati, pubescentes, ascendentes. Antennæ simplices.

Male.—Body stout, smooth. Proboscis short. Palpi compressed, curved, reverted, extending more or less over the thorax, closely fringed to their tips; first joint short; second rising above the vertex; third hardly curved, as long as the second. Antennæ pubescent, thickened at about one-third of the length, with two setæ on each joint from thence to the tips. Abdomen not or hardly extending beyond the hind wings. Legs stout, densely tufted, especially the fore pair; spurs long. Wings moderately broad. Fore wings straight along the costa, almost rectangular at the tips, slightly or moderately oblique along the exterior border. *Female.*—Palpi lanceolate, curved, pubescent, rising above the vertex. Antennæ simple. Legs not.

This genus is closely allied to *Bocana* by means of *B. turpatalis*, but may be distinguished by the palpi of the male.

1. Libisosa Butesalis.

Mas.—*Pallide fusca; palpi intus pallide lutei; alæ linea recta alba submarginali postice angulata subtus undulata, lineis interiore et exteriore fuscis denticulatis indistinctis, orbiculari et reniformi parvis fuscis.* Fœm.—*Minor; alæ anticæ lineis interiore et exteriore subobsoletis.*

Male.— Pale brown, brownish cinereous beneath. Palpi pale luteous on the inner side. Thorax on each side with a pale luteous line extending from it along the costa of the fore wings. Wings with a straight white submarginal line, which forms an obtuse angle near the interior angle of the hind wings, and is indistinct and undulating on the under side; interior and exterior lines brown, denticulated, indistinct, obsolete on the hind wings above, but the latter distinct beneath; orbicular and reniform marks small, brown; discal lunule very distinct on the under side of the hind wings. Length of the body 6 lines; of the wings 16 lines. *Female.*—

Like the male, but smaller. Fore wings with the interior and exterior lines almost obsolete. Hind wings with the submarginal line contiguous to the fringe beyond its angle, not separate from it as in the male. Length of the body 4 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 31. HIPOEPA.

Mas. Corpus robustum, dense vestitum. Proboscis brevis. Palpi validi, pilosi, ascendentes; articulus 2us arcuatus; 3us linearis, 2o paullo brevior. Antennæ pubescentes, incurvæ, corporis dimidio fere breviores. Abdomen alas posticas non superans, fasciculis tribus apicalibus. Pedes validi, pubescentes, calcaribus longis; antici fasciculis longissimis. Alæ mediocres, fimbria lata; anticæ costa basali subconvexa, margine exteriore flexo; posticæ margine exteriore vix flexo.

Male and female. Body stout. Head and thorax densely clothed. Proboscis short. Palpi stout, pilose, ascending; second joint curved; third linear, a little shorter than the second. Antennæ pubescent, curled, hardly half the length of the body. Abdomen not extending beyond the hind wings; tip with a slender upright dorsal tuft, and with a tuft on each lateral valve. Legs stout, pubescent; spurs long; fore legs with a tuft of very long hairs. Wings moderately broad; fringe broad. Fore wings slightly convex along the basal half of the costa, sharply angular at the tips; exterior border distinctly bent. Hind wings with the exterior border hardly bent.

1. HIPOEPA LAPSALIS.

Mas. *Ferrugineo-fusca; thorax squamosus; alæ anticæ subpurpurascentes, lineis fuscis distinctis angustis undulatis, linea media lata recta obliqua intus diffusa, linea submarginali intus diffusa extus concisa angulata albido marginata, striga apicali nigricante; posticæ cinereæ, linea exteriore fusca, submarginali albida subtus guttulari.*

Male. Ferruginous-brown. Thorax squamous. Tuft on the fore legs cinereous. Fore wings with a purplish tinge; lines brown, distinct; basal half line, interior line and exterior line slender, un-

dulating; middle line broad, straight, oblique, diffuse on the inner side; submarginal line diffuse and irregular on the inner side, concisely bordered on the outer side by a whitish line, which forms a distinct angle; a short blackish apical streak. Hind wings cinereous; exterior line brown; submarginal line whitish, composed of dots on the under side, as it is also on that of the fore wings. Length of the body 4 lines; of the wings 10 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Genus 32. LAMURA.

Mas. Corpus robustum, dense pilosum. Proboscis brevis. Palpi validi, ascendentes, articulo 2o tumido subtus piloso, 3o breviore lanceolato subarcuato. Antennæ pectinatæ. Abdomen basi subcristatum; alas posticas vix superans. Pedes validi, subpilosi, calcaribus longissimis; antici breves. Alæ latiusculæ; anticæ apice subrotundatæ, margine exteriore subconvexo subobliquo.

Male. Body stout, densely pilose. Proboscis short. Palpi stout, ascending; second joint slightly tumid above, pilose beneath; third lanceolate, slightly curved, much shorter than the second. Antennæ pectinated on both sides to their tips, much more than half the length of the body. Abdomen slightly crested towards the base, hardly extending beyond the hind wings. Legs stout, slightly pilose; spurs very long. Fore legs short. Wings rather broad. Fore wings with the apical angle slightly rounded; exterior border slightly convex and oblique.

I. Lamura oberratalis.

Mas. *Ferrugineo-fusca; alæ lineis exteriore et submarginali fuscis diffusis indistinctis denticulatis pallido extus marginatis; anticæ linea interiore distincta pallido intus marginata, orbiculari e gutta alba, reniformi albido-testacea angusta fusco marginata.*

Male. Ferruginous-brown, paler beneath. Third joint of the palpi whitish at the tip. Wings with the exterior and submarginal lines brown, diffuse, indistinct, denticulated, with pale outer borders, which are indistinct, except towards the costa. Fore wings with a distinct interior line, which has a pale inner border; orbicular mark forming a white dot; reniform whitish testaceous, narrow, with a brown border. Wings beneath with the lines more distinct and with a discal mark, which is larger on the hind wings

than on the fore wings. Length of the body 5 lines; of the wings 11 lines.

a. Ceylon. From Mr. Stevens' collection.

Genus 33. IPNEA.

Fœm. Corpus sat robustum. Proboscis mediocris. Palpi longi, compressi, erecti, articulo 2o subarcuato antice fimbriato postice subangulato, 3o pubescente lineari. Antennæ longæ, subserratæ. Abdomen longum, subcylindricum, alas posticas superans. Pedes longi, validi, subpilosi, calcaribus longissimis. Alæ longæ; anticæ apud costam subconvexæ, angulo apicali subrotundato, margine exteriore convexo, angulo interiore valde rotundato.

Female. Body rather stout. Proboscis moderately long. Palpi long, compressed, vertical, very slightly curved; second joint fringed in front, slightly angular on the hind side; third pubescent, linear, acute at the tip, full as long as the second. Antennæ long, very minutely serrated, with two minute setæ on each joint. Abdomen long, nearly cylindrical, extending somewhat beyond the hind wings. Legs long, stout, slightly pilose; spurs very long. Wings long, moderately broad. Fore wings slightly convex along the costa; apical angle slightly rounded; exterior border convex, very slightly oblique; interior angle much rounded.

This genus has some resemblance to the *Erebidæ*.

1. IPNEA EREBUSALIS.

Fœm. *Fusca, subtus cervina; tarsi supra fusci testaceo fasciati; antennæ subtus ochraceæ; alæ anticæ lineis interiore et exteriore obscure fuscis, hac flexa, illa subundulata, macula apicali magna elongata testacea, orbiculari et reniformi obsoletis.*

Female. Brown, fawn-colour beneath. Legs beneath and palpi pale fawn-colour; tarsi above brown, with testaceous bands. Antennæ ochraceous beneath. Fore wings with the interior and exterior lines dark brown, not distinct, remote from each other, the former slightly undulating, the latter more bent; a large elongated costal apical testaceous spot; orbicular and reniform marks obsolete. Hind wings without markings above, but with a brown discal lunulé beneath. Length of the body 10 lines; of the wings 24 lines.

Pará. In Mr. Saunders' collection.

Genus 34. ORTHAGA.

Fœm. Corpus sat robustum. Palpi pubescentes, arcte applicati, non longi, articulo 2o arcuato, 3o lanceolato vix arcuato. Antennæ subpubescentes. Abdomen alas posticas paullo superans. Pedes validi, subpilosi, calcaribus longis. Alæ anticæ sat angustæ, angulo apicali subrotundato, margine exteriore sat obliquo.

Female. Somewhat allied to the *Bertulæ*, especially to *B. Phidiasalis*. Body rather stout. Proboscis short. Palpi pubescent, not long, applied close to the head, and extending to the vertex; second joint curved; third lanceolate, hardly curved, shorter than the second. Antennæ very minutely pubescent. Abdomen extending a little beyond the hind wings. Legs stout, slightly pilose; spurs long. Fore wings rather narrow; apical angle slightly rounded; exterior border rather oblique.

1. ORTHAGA EUADRUSALIS.

Fœm. *Pallide ochracea, squamosa; alæ anticæ fascia exteriore albida obliqua informi, striga nigra magis obliqua marginem exteriorem attingente, lineis nigricantibus valde indistinctis et incompletis, margine exteriore fimbriaque nigro guttatis, orbiculari et reniformi indistinctis; posticæ cinereo-fuscæ; tarsi supra nigricantes, pallido fasciati.*

Female. Pale ochraceous, whitish testaceous beneath, where the wings are mostly cinereous. Thorax, abdomen and fore wings squamous. Fore wings with a whitish oblique, very irregular exterior band, beyond which there is a black more oblique streak, which ends at a little in front of the middle of the exterior border; lines blackish, denticulated, very indistinct and incomplete; marginal dots black; fringe also with black dots; orbicular and reniform marks indistinct. Hind wings cinereous-brown; fringe as in the fore wings. Tarsi blackish above, with pale bands. Length of the body 5 lines; of the wings 12½ lines.

Sarawak, Borneo. In Mr. Saunders' collection.
Ceylon.

Genus 35. OPOTURA.

Mas. Corpus sat robustum. Palpi erecti, sat longi; articulus 2us subarcuatus, antice fimbriatus; 3us quasi securiformis, 2o valde

brevior. Antennæ validæ. Pedes validi, pubescentes, calcaribus longissimis; tibiæ anticæ dilatatæ, basi quasi furcatæ. Alæ anticæ subfalcatæ, margine exteriore vix flexo.

Male. Body moderately stout. Head with an obtuse frontal tuft. Palpi compressed, vertical, rising rather high above the head; second joint slightly curved, fringed in front; third tufted towards the tip, and thus apparently securiform, much shorter than the second. Antennæ stout, with rather long setæ. Abdomen not extending beyond the hind wings; apical tuft compressed. Legs stout, pubescent, not pilose; spurs very long; fore tibiæ dilated, with an appendage at the base. Wings moderately broad. Fore wings slightly subfalcate; exterior border hardly bent, moderately oblique.

1. Opotura Erinusalis.

Mas. *Fusca; palpi pedesque nigricante notati; tarsi antici nigri, articulis apice pallidis; alæ anticæ lineis nigricantibus denticulatis indistinctis, submarginali fusca duplicata, orbiculari pallida punctiformi, reniformi e lunula obtusa nigra.*

Male. Brown. Abdomen, hind wings and under side brownish cinereous. Palpi and legs with some blackish marks. Fore tarsi black; joints with pale tips. Fore wings with the lines blackish, denticulated, indistinct; submarginal line brown, denticulated, double; marginal points black, apparent also in the hind wings, on which the lines are very indistinct above, but conspicuous beneath; orbicular mark pale, punctiform; reniform forming a black lunule, which is obtuse at each end. Length of the body 5 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

Genus 36. GIZAMA.

Mas. Corpus sat gracile. Palpi sat graciles, pubescentes, reflexi, thoracis medium attingentes; articulus 2us valde arcuatus; 3us linearis, rectus 2o longior, quasi furcatus. Antennæ graciles, apices versus serratæ et deviæ, apud apices convolutæ. Abdomen alas posticas non superans. Pedes validi, subpilosi. Alæ longiusculæ; anticæ apud costam valde rectæ, apice subrotundatæ, margine exteriore obliquo.

Male. Body rather slender. Palpi rather slender, pubescent, contiguous to the head and reflexed over it nearly to the middle of

the thorax; first joint rather short; second much curved; third linear, straight, longer than the second, apparently furcate or with an appendage beyond the middle. Antennæ slender, serrated at three-fourths of the length, beyond which they are dislocated or deviating, and from thence convoluted to the tips. Abdomen not extending beyond the hind wings. Legs stout, slightly pilose; spurs long. Wings moderately broad, rather long. Fore wings very straight along the costa, somewhat rounded at the tips, convex and moderately oblique along the exterior border.

1. GIZAMA MIDASALIS.

Mas. *Nigricante-fusca; palpi ex parte, thoracis latera antica et costa subochracea; alæ anticæ linea submarginali subundulata atomisque exterioribus albo-glaucescentibus, guttis marginalibus nigris albo punctatis.*

Male. Blackish brown. Abdomen, hind wings and under side brown. Palpi partly, sides of the thorax in front and costa of the fore wings dull ochraceous. Fore wings with a bluish white slightly undulating submarginal line more remote than usual from the exterior border, and accompanied by speckles of the same hue along its outer side; marginal dots black, pointed with white. Hind wings with the submarginal line almost obsolete, except towards the hind border, but denticulated and complete on the under side. Length of the body 5 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

2. GIZAMA? ROSIMONALIS.

Mas. *Ferruginea; palpi fere rectangulati; articulus 2us subrectus, apice subfasciculatus; 3us thoracis medium attingens, 2o duplo longior; alæ anticæ subfalcatæ, lineis testaceis, exteriore denticulata, submarginali undulata guttis contiguis nigricantibus, orbiculari et reniformi nigris subrotundis, fimbria ochracea, margine exteriore angulato.*

Male. Ferruginous. Abdomen and hind wings cinereous-brown. Second joint of the palpi nearly straight, slightly tufted at the tip; third extending to the middle of the thorax, about twice the length of the second, with which it forms a nearly right angle. Fore wings subfalcate, with the interior line almost obsolete; exterior line testaceous, denticulated, nearer than usual to the submar-

ginal one; the latter testaceous, undulating, accompanied by some blackish dots; marginal points black; exterior border distinctly angular; fringe ochraceous; orbicular and reniform marks black, nearly round. Length of the body 6 lines; of the wings 15 lines.

a. Venezuela. From Mr. Dyson's collection.

Genus 37. OGLASA.

Mas. Corpus sat robustum. Palpi breves, pilosi, oblique ascendentes; articulus 3us conicus, brevissimus. Antennæ validæ, setosæ. Abdomen alas posticas vix superans, apice subcompressum. Pedes validi; tibiæ pilis longis fimbriatæ, calcaribus longissimis. Alæ latiusculæ; anticæ apud costam subrectæ, apice rectangulatæ, margine exteriore perparum obliquo.

Male. Body moderately stout. Palpi short, pilose, obliquely ascending, not rising above the vertex; third joint conical, not more than one-fourth of the length of the second. Antennæ stout, with two rather long setæ on each joint. Abdomen hardly extending beyond the hind wings, slightly compressed at the tip. Legs stout; tibiæ fringed with long hairs; spurs very long. Wings rather broad. Fore wings almost straight along the costa, rectangular at the tips; exterior border very slightly oblique.

1. Oglasa Lagusalis.

Mas. *Albido-testacea; caput et thorax anticus cervina; alæ anticæ punctis basalibus et costalibus subapicalibus nigris, linea exteriore e punctis fuscis, reniformi e striga parva obliqua fusca, maculis duabus trigonis costalibus fuscis.*

Male. Whitish testaceous. Head and fore part of the thorax fawn-colour. Wings with black marginal points. Fore wings with some black points at the base and on the costa towards its tip; exterior line indicated by some brown points; reniform mark forming a small oblique brown streak; two brown triangular costal spots, the exterior one much larger than the other. Hind wings beneath with a brown discal mark, and an indistinct exterior brown line. Length of the body 5½ lines; of the wings 13 lines.

Sarawak, Borneo. In Mr. Wallace's collection.

Genus 38. IMMA.

Mas. Corpus robustum, dense vestitum. Proboscis brevis. Palpi validi, pubescentes, ascendentes, articulo 2o vix arcuato, 3o lanceolato. Antennæ simplices, graciles, corporis dimidio longiores. Abdomen alas posticas non superans, pilis basalibus longis, fasciculis tribus apicalibus. Pedes validi, dense fasciculati, calcaribus longis. Alæ anticæ sat angustæ, angulo apicali subrotundato, margine exteriore perobliquo; posticæ apud marginem interiorem dense lanuginosæ.

Male. Body stout, densely clothed. Proboscis short. Palpi stout, pubescent, ascending; second joint hardly curved; third lanceolate, a little less than half the length of the second. Antennæ simple, slender, more than half the length of the body. Abdomen not extending beyond the hind wings, with long hairs towards the base; three apical tufts, one dorsal, the other two lateral. Legs stout; femora fringed, somewhat dilated; tibiæ densely tufted; spurs long. Fore wings rather narrow; apical angle slightly rounded; exterior border very oblique. Hind wings densely lanuginous along the interior border.

1. Imma rugosalis.

Mas. *Cervina, subtus albido-testacea; alæ lineis obsoletis; anticæ litura discali exteriore fusca; posticæ murinæ, areola discali magna fere nuda subrugulosa.*

Male. Fawn-colour, whitish testaceous beneath. Abdomen, fore wings beneath and hind wings mouse-colour. Wings with the lines wholly obsolete. Fore wings with a brown mark in the disk at two-thirds of the length; marginal points brown. Hind wings with the discal areolet large, almost bare, minutely rugulose. Length of the body 3½ lines; of the wings 8½ lines.

a. Ceylon. Presented by R. Templeton, Esq.

Genus 39. ECHANA.

Mas: Corpus sat robustum. Proboscis breviuscula. Palpi rectangulati, compressi, subfimbriati; articulus 2us erectus, vix arcuatus; 3us lanceolatus, 2o non brevior. Antennæ subsetosæ, corpore paullo breviores. Abdomen alas posticas non superans,

apice subtumidum. Pedes graciles, nudi, calcaribus longis. Alæ breviusculæ; anticæ apice subrotundatæ, subcostam pertusæ; plica costali subfusiformi, margine exteriore convexo vix obliquo.

Male. Body moderately stout. Proboscis rather short. Palpi compressed, with a short fringe; second joint vertical, hardly curved; third lanceolate, as long as the second, with which it forms a right angle and extends over part of the thorax. Antennæ a little shorter than the body, slightly setose; the setæ very short along the apical half. Abdomen not extending beyond the hind wings, slightly tumid at the tip. Legs slender, bare; spurs long. Wings moderately broad, rather short. Fore wings slightly rounded at the tips, with a costal subfusiform fold above, and with a slight corresponding swelling and dislocation of the veins on the under side; a small subcostal perforation adjoining the basal end of this fold; exterior border convex, hardly oblique.

Type, *E. abavalis.*

1. Echana abavalis.

Mas. *Fuscescente-cervina; alæ anticæ lineis exteriore et submarginali denticulatis subobsoletis; posticæ cinereæ, lineis tribus fuscis denticulatis supra subobsoletis subtus distinctis.*

Male. Brownish fawn-colour, cinereous beneath. Abdomen paler than the thorax. Fore wings with the exterior and submarginal lines denticulated, almost obsolete. Hind wings cinereous, with the three usual lines brown, denticulated, almost obsolete above, but distinct on the under side. Length of the body 4 lines; of the wings 9 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b, c. Sarawak, Borneo. From Mr. Wallace's collection.

2. Echana? Cassiusalis.

Mas. *Cervina; palpi validi, pilosi, acute angulati; articulus 2us longus, rectus; 3us dense fasciculatus, apice supra thoracem incumbens. 2o brevior; antennæ breves; abdomen fasciculo apicali radiato; pedes subfimbriati; alæ latiusculæ, lineis fuscis denticulatis apud costam dilatatis, orbiculari et reniformi nigricantibus, hac angusta, illa punctiformi.*

Male. Fawn-colour, pale testaceous, cinereous beneath. Palpi stout, pilose; second joint long, straight, rising high above the ver-

tex; third densely tufted, resting on the thorax towards its tip, shorter than the second, with which it forms an acute angle. Antennæ short; setæ rather long. Abdomen with a diverging apical tuft. Legs slightly fringed. Wings rather broad; lines brown, denticulated, indistinct and incomplete above, but entire beneath; marginal points blackish. Fore wings with the lines dilated and darker along the costa; orbicular and reniform marks blackish, the former punctiform, the latter narrow. Hind wings beneath with a brown discal lunule and an interior brown point. Length of the body 6 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

3. ECHANA? MANTUSALIS.

Mas. *Cinereo-testacea; caput et thorax anticus fusci; palpi pubescentes, obtuse anguluti, extus fusci; articulus 2us subarcuatus; 3us acicularis, subfimbriatus, 2o brevior; abdomen apicem versus subcompressum; pedes antici fusci, fasciculo e pilis longis pallide flavis; alæ lineis fuscis denticulatis, submarginali recta tenui albida, orbiculari et reniformi nigris, hac e punctis tribus.*

Male. Cinereous-testaceous, more cinereous and speckled beneath. Head, fore part of the thorax and fore legs brown; the last with a tuft of long pale yellow hairs at the knees. Palpi pubescent, brown on the outer side; second joint slightly curved, rising above the vertex; third acicular, slightly fringed, a little shorter than the second, with which it forms an obtuse angle. Joints of the antennæ with a minute tooth on each side, whence proceeds a rather long bristle. Abdomen slightly compressed towards the tip. Posterior legs slightly fringed. Wings with a straight slender whitish submarginal line, which is slightly curved towards the tips of the fore wings; interior and exterior lines brown, denticulated; marginal points black. Fore wings with the orbicular and reniform marks black, the former of one, the latter of three points. Hind wings beneath with a dark brown discal lunule. Length of the body 5 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

4. Echana? Actorisalis.

Mas. *Cinereo-fusca, vix robusta; palpi longiusculi, sat graciles, subrectangulati; articulus 2us oblique ascendens; 3us rectus, postice fimbriatus, 2o paullo longior; antennæ apices versus convolutæ; pedes sat graciles, non pilosi; alæ lineis fuscis denticulatis, interiore obscuriore subrecta, orbiculari et reniformi albis fusco marginatis, hac parva angusta, illa punctiformi, costa subtus pilis albido-testaceis fasciculato.*

Male. Cinereous-brown, hardly stout, more cinereous beneath. Palpi rather long and slender; second joint obliquely ascending to a little above the vertex; third joint straight, fringed on the hind side, a little longer than the second, with which it forms an almost right angle. Antennæ with short setæ, convoluted towards their tips. Legs rather slender, pubescent, not pilose. Fore wings with a mark of blackish flecks in the disk near the base; lines brown; interior line almost straight, darker than the exterior and submarginal lines, which are denticulated, the latter bordered with cinereous; marginal lunules brown, testaceous along their outer side; orbicular and reniform marks white, brown-bordered; the former punctiform; the latter small, narrow; costa beneath towards the base tufted with whitish testaceous hairs. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 40. EDETA.

Mas. Corpus robustum. Palpi breves, validi, pubescentes, ascendentes; articulus 2us arcuatus; 3us lanceolatus, 2i dimidio brevior. Antennæ pubescentes. Thorax squamosus, tegulis posticis longis. Abdomen alas posticas paullo superans. Pedes validi, pilosi. Alæ anticæ non latæ, apice subrotundatæ; venæ costam versus incrassatæ.

Male. Body stout. Palpi short, stout, pubescent, ascending; second joint curved; third lanceolate, not half the length of the second. Antennæ pubescent, or with very minute tufts of hairs. Thorax squamous; hind tegulæ long. Abdomen extending a little beyond the hind wings. Legs stout, pilose. Fore wings not broad, slightly rounded at the tips; exterior border moderately oblique; veins towards the costa incrassated and distorted.

1. EDETA ICARUSALIS.

Mas. *Pallide rubochracea; abdominis fasciculus apicalis nigricans, subquadratus; alæ anticæ squamis plurimis nigris aut ferrugineis, venis costam versus incrassatis deviis callum elongatum nudum semihyalinum laminatum includentibus, fimbria duplicata intus nigricante; posticæ fuscæ.*

Male. Pale dull ochraceous, cinereous beneath, where the wings are brown and shining. Abdomen with the apical tuft blackish, subquadrate. Fore wings partly covered with black or ferruginous scales; veins near the costa thickened and devious, and enclosing between an elongated bare semihyaline callus, which is divided above into eight laminæ, and beneath is punctured and has eight sutures; lines too diffuse to be traced; fringe double, the interior part blackish. Hind wings brown, shining, somewhat cinereous towards the base. Length of the body 6 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 41. NEVIASCA.

Mas. Corpus robustum. Palpi longissimi, fimbriati, ascendentes; articulus 2us valde arcuatus; 3us subrectus, postice fasciculatus, 2o paullo brevior. Antennæ pectinatæ, apices versus convolutæ, ramis pubescentibus. Abdomen alas posticas vix superans. Pedes validi, subpilosi, calcaribus longissimis; tibiæ anticæ breves, dilatatæ. Alæ sat angustæ; anticæ apud costam rectæ, apice subrotundatæ, margine exteriore perobliquo. *Fœm.*—Palpi graciles, pubescentes; articulus 2us subarcuatus; 3us subrectus, gracillimus, valde acutus, 2o brevior. Antennæ graciles, simplices.

Male. Body stout. Palpi compressed, fringed, very long, ascending very high above the vertex; first joint very short; second much curved; third almost straight, tufted on its hind side with very long hairs, a little shorter than the second. Antennæ moderately pectinated, convoluted towards the tips; branches pubescent. Abdomen hardly extending beyond the hind wings; apical tuft very small. Legs stout, slightly pilose; spurs very long; fore tibiæ short, dilated, with a thick appendage, which extends beyond their tips. Wings rather narrow. Fore wings straight along the costa, slightly rounded at the tips; exterior border very oblique. *Female.*—Palpi slender, pubescent; second joint slightly curved; third

almost straight, very slender, very acute, shorter than the second. Antennæ slender, simple.

1. Neviasca Tespisalis.

Mas et fœm. *Fuscescente-cervina; alæ anticæ lineis fuscis, interiore et exteriore subobliquis fere rectis et parallelis, spatio intermedio pallidiore, linea submarginali subundulata, reniformi nivea angusta.*

Male and female. Brownish fawn-colour, cinereous-brown beneath. Fore wings with the interior and exterior lines brown, slightly oblique, nearly straight and parallel to each other; space between them a little paler than the wing elsewhere; submarginal line brown, slightly undulating; marginal points blackish; reniform mark snow-white, narrow, contiguous to the exterior line. Hind wings with the interior and exterior lines and the space between them as in the fore wings, but less distinct; exterior line denticulated beneath. Length of the body 4 lines; of the wings 10½ lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 42. DRAGANA.

Mas. Corpus vix robustum. Palpi breves, validi, ascendentes, pubescentes; articulus 3us conicus, parvus, 2i dimidio brevior. Antennæ vix pectinatæ, non longæ. Thorax squamosus. Abdomen alas posticas vix superans. Pedes sat validi, fere nudi. Alæ anticæ apice acutæ, margine exteriore recto sat obliquo.

Male. Body hardly stout. Proboscis short. Palpi short, stout, ascending, pubescent; third joint conical, small, less than half the length of the second. Antennæ curved, setulose, minutely pectinated, little more than half the length of the body. Thorax squamous. Abdomen hardly extending beyond the hind wings. Legs rather stout, almost bare. Wings moderately broad. Fore wings acute at the tips, straight and rather oblique along the exterior border.

The situation of this genus is doubtful, and it seems hardly to belong to the *Herminidæ*.

1. Dragana pansalis.

Mas. *Cinereo-cervina; alæ lineis fuscescentibus denticulatis indistinctis, submarginali nigro binotata, punctis marginalibus nigris, anticæ orbiculari et reniformi valde indistinctis.*

Male. Cinereous fawn-colour. Abdomen, under side and hind wings paler and more cinereous. Wings with the lines brownish, denticulated, indistinct; marginal points black. Fore wings with the orbicular and reniform very indistinct; submarginal line having a black mark before the middle and another near the interior border. Length of the body 3½ lines; of the wings 8 lines.

a. Ceylon. From Mr. Stevens' collection.

Genus 43. LYSIMELIA.

Mas. Corpus gracile. Palpi longi, reversi, subfimbriati, fere rectangulati; articulus 2us vix arcuatus; 3us acicularis, valde acutus. Antennæ pubescentes, setosæ. Abdomen cylindricum, alas posticas vix superans. Pedes sat graciles; tibiæ anticæ pilis longissimis fasciculatæ. Alæ anticæ acute rectangulatæ.

Male. Body slender. Palpi long, compressed, slightly fringed, extending to the fore border of the thorax; second joint hardly curved, rising above the vertex; third acicular, very acute, as long as the second, with which it forms a nearly right angle. Antennæ pubescent, with rather long bristles, which are incrassated at the base. Abdomen cylindrical, extending very little beyond the hind wings; apical tuft very small. Legs rather slender; spurs long; fore tibiæ with a tuft of very long hairs. Wings moderately broad. Fore wings straight along the costa, acutely rectangular at the tips, moderately oblique along the exterior border.

1. Lysimelia Neleusalis.

Mas. Pallide cinereo-fusca; alæ linea submarginali alba recta, linea marginali albida, fimbria interlineata, lineis interiore et exteriore fuscis denticulatis subobsoletis.

Male. Pale cinereous-brown. Wings darker brown along the inner side of the submarginal line, which is white and straight, less regular beneath; a whitish line along the base of the fringe, which is interlined; interior and exterior lines brown, denticulated, almost obsolete above except by the costa. Length of the body 4 lines; of the wings 10 lines.

a, b. Sarawak, Borneo. From Mr. Wallace's collection.

Genus 44. ELUSA.

Mas. Corpus robustum, pilosissimum. Palpi validi, subangulati; articulus 2us longus, oblique ascendens; 3us conicus, brevis, pilosus. Antennæ dimidio basali incrassato contorto et sulcato, apud medium dilatatæ et cyathiformes, apices versus setosæ et arcuatæ. Abdomen alas posticas superans, subtus lanuginosum. Pedes validi; tibiæ (posticæ latissime) fimbriatæ. Alæ breviusculæ, sat angustæ; anticæ apice subrotundatæ, margine exteriore perobliquo; posticæ margine interiore fimbriato.

Male. Body stout, very pilose. Palpi stout, pilose; first joint very short; second obliquely ascending, long; third short, conical, pilose, inclined forward, and thus forming an obtuse angle with the second. Antennæ incrassated, twisted and grooved above for one-third of the length from the base, then with a cup-shaped dilatation, setose as usual and curved from thence to the tips. Abdomen extending beyond the hind wings, lanuginous beneath; apical appendages and tuft large. Legs stout; fore tibiæ slightly fringed; middle tibiæ moderately fringed; hind tibiæ most densely fringed with long hairs. Wings rather short and narrow. Fore wings somewhat rounded at the tips; exterior border very oblique. Hind wings with the interior border fringed.

1. ELUSA CENEUSALIS.

Mas. *Cervina; antennæ nodo subtus nigricante; alæ anticæ ex parte subrufescentes, lineis interiore et exteriore fuscescentibus denticulatis indistinctis, submarginali subobsoleta, orbiculari albida punctiformi, reniformi angusta longa cinerea albido marginata extus excavata.*

Male. Fawn-colour. Abdomen and hind wings paler. Antennæ blackish on the inside of the cup-shaped part. Fore wings with a reddish tinge from the base to the reniform mark, which is narrow, long, cinereous with a whitish border, excavated on the outer side; orbicular mark whitish, punctiform; interior and exterior lines brownish, denticulated, indistinct; submarginal line almost obsolete, as are the other lines on the wings beneath. Length of the body 5—6 lines; of the wings 10—12 lines.

a.—c. Sarawak, Borneo. From Mr. Wallace's collection.

Genus 45. ELYRA.

Mas. Corpus robustum. Palpi longi, pubescentes, usque ad thoracem reflexi; articulus 1us mediocris; 2us valde arcuatus, antice subpilosus; 3us lanceolatus, rectus, 2o valde brevior, pilis longis porrectis munitus. Antennæ breves, pectinatæ, apices versus convolutæ. Abdomen alas posticas non superans. Pedes sat validi, subpilosi, calcaribus longissimis; tibiæ anticæ dense pilosæ. Alæ non latæ; anticæ apud costam vix concavæ, apice rectangulatæ, margine exteriore perobliquo.

Male. Body stout. Palpi long, pubescent, reflexed over the head to the fore part of the thorax; first joint moderately long; second much curved, slightly pilose in front, rising high above the vertex; third lanceolate, straight, much shorter than the second, furnished with long hairs which extend beyond it. Antennæ short, rather broadly pectinated on both sides, curled towards the tips. Abdomen not extending beyond the hind wings. Legs moderately stout, slightly pilose; spurs very long; fore tibiæ densely pilose. Wings not broad. Fore wings hardly concave along the costa, rectangular at the tips; exterior border very oblique.

Of the two following species the structure of the second is very different from that of the first, which may be considered as the type of the genus.

1. Elyra Phlegeusalis.

Mas. *Ferrugineo-fusca; palporum articulus 2us rufescens; alæ anticæ purpurascente et cupreo tinctæ, lineis interiore et exteriore cervinis, hac magis undulata et cervina, submarginali fusca tenui informi, orbiculari et reniformi indistinctis; posticæ lineis lunulaque discali subtus distinctis fuscis.*

Male. Ferruginous-brown. Abdomen, hind wings and under side cinereous-brown. Second joint of the palpi ferruginous-red, except in front. Fore wings with a purplish and cupreous tinge; interior and exterior lines fawn-colour; the latter more undulating, more oblique, and more distinct than the former one; submarginal line brown, slight, very irregular; marginal lunules black; orbicular and reniform marks indistinct. Hind wings with the lines indistinct above, distinct beneath, as is also the brown discal lunule. Length of the body 5½ lines; of the wings 13 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

2. ELYRA? CACHRUSALIS.

Mas. *Obscure fusca, subtus albido-cinerea; palpi dense pilosi; articulus 2us arcuatus; 3us lanceolatus, subarcuatus, antice fimbriatus; 2i dimidio vix longior; antennæ validæ, subpectinatæ; pedes non pilosi; tibiæ anticæ breves, subtus fasciculatæ; alæ amplæ; anticæ cinereæ, subfalcatæ, subglaucescentes, lineis nigris undulatis, submarginali costam versus abrupte retracta, litura discali interiore nigra, orbiculari e gutta pallida, reniformi indeterminata.*

Male. Dark brown, whitish cinereous beneath. Palpi densely clothed with short hairs, rising above the vertex; second joint curved; third lanceolate, slightly curved, fringed in front, hardly more than half the length of the second. Antennæ stout, slightly pectinated. Legs stout, not pilose; fore tibiæ short, tufted beneath. Wings ample. Fore wings almost subfalcate, mostly cinereous, and with a glaucous tinge; lines black, undulating, partly bordered with cinereous; middle line dilated towards the interior border; a black mark in the disk near the base; submarginal line abruptly retracted towards the costa; orbicular mark forming a pale dot; reniform irregular; marginal line whitish, black-bordered; a slight tuft on the discal vein beneath. Hind wings cinereous, with the lines indistinct above, diffuse beneath. Length of the body 6 lines; of the wings 14 lines.

a. West Africa. Presented by E. Doubleday, Esq.

Genus 46. DIERNA.

Mas. Corpus sat validum. Palpi longi, oblique ascendentes, perparum arcuati; articulus 2us latus, pubescens; 3us acicularis, gracillimus, subnudus, 2o valde brevior. Antennæ longiusculæ, setosæ, apices versus subdilatatæ et subdeviæ, apice graciles et convolutæ. Abdomen læve, apicem versus compressum, alas posticas non superans. Pedes longiusculi, sat graciles; antici breves, subtus fimbriati. Alæ latæ, sat angustæ; anticæ subfalcatæ.

Male. Body moderately stout. Head with a frontal tuft. Palpi long, obliquely ascending, very slightly curved; second joint broad, pubescent; third acicular, very slender, almost bare, much shorter than the second. Antennæ rather long, with long setæ for nearly three-fourths of the length, where they are slightly dilated

and dislocated, slender and convoluted from thence to the tips. Abdomen smooth, compressed towards the tip, not extending beyond the hind wings. Legs rather long and slender, almost bare; spurs very long; fore femora and fore tibiæ short, fringed beneath. Wings broad, rather short. Fore wings subfalcate; exterior border slightly convex, moderately oblique.

This genus seems to be nearly allied to the *Noctuites*, and several other *Herminidæ* may be considered aberrant forms of some of the families of that tribe.

1. DIERNA ACANTHUSALIS.

Mas. *Albido-testacea; articulus palporum 2us extus fuscus; alæ subconspersæ, punctis marginalibus nigricantibus; anticæ lineis valde indistinctis, linea pallida recta obliqua exteriore puncto strigaque apud marginem interiorem punctoque discali exteriore nigris, macula discali subtus obscure fusca.*

Male. Whitish testaceous. Second joint of the palpi brown on the outer side. Wings slightly speckled with pale brown; marginal points blackish. Fore wings with the lines a little darker than the ground-colour, very indistinct; a pale straight line extending from near the tip of the costa to beyond the middle of the interior border, on approaching which it is lost in an elongated black mark, and is contiguous to a black point before its middle; another black point on the interior border before the middle; under side with a dark brown discal spot. Hind wings with a dark brown discal point on the under side. Length of the body 6½ lines; of the wings 14 lines.

a. North Hindostan. From Mr. James' collection.

Genus 47. DIETHUSA.

Mas. Corpus robustum. Palpi breves, oblique ascendentes; articulus 2us pubescens, latissimus; 3us longi-conicus, subnudus, 2i triente non longior. Antennæ validæ; articuli subfasciculati. Thorax squamosus. Abdomen apicem versus subcompressum, alas posticas paullo superans. Pedes validi, pilis longis dense fimbriati. Alæ subdenticulatæ; anticæ vix subfalcatæ, margine exteriore subangulato.

Male. Body stout. Palpi short, obliquely ascending; second joint pubescent, very broad; third elongate-conical, almost bare,

about one-third of the length of the second. Antennæ stout; joints with a small tuft of bristles on each side. Thorax squamous. Abdomen slightly compressed towards the tip, extending a little beyond the hind wings. Legs stout; femora, tibiæ and base of the tarsi densely fringed with long hairs. Wings moderately broad, slightly denticulated. Fore wings hardly subfalcate, with a slight angle in the middle of the exterior border.

1. DIETHUSA EMILIUSALIS.

Mas. *Testacea; alæ fusco subconspersæ; anticæ squamis nonnullis interioribus nigricantibus, lituris costalibus lineisque fuscis, linea media postice conspicua perobliqua, exteriore undulata extus pallida, orbiculari e gutta fusca, reniformi fusca informi pallido notata.*

Male. Testaceous, more cinereous beneath. Wings slightly and minutely speckled with brown; marginal lunules blackish. Fore wings with some blackish scales in the disk near the base and with some brown marks along the costa; lines brown; interior line very incomplete; middle line very oblique between the reniform mark and the interior border; exterior line irregular, undulating, accompanied by a pale line; submarginal line very incomplete; orbicular mark forming a brown dot; reniform brown, irregular, accompanied by some pale marks, of which one is by the orbicular. Hind wings with the exterior line distinct beneath. Length of the body 6 lines; of the wings 14 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

Genus 48. EORDÆA.

Mas. Corpus sat robustum. Palpi longi, ascendentes; articulus 2us longus, arcuatus, squamosus; 3us lanceolatus, pilis longis porrectis munitus, 2i triente non longior. Antennæ sat graciles, subsetosæ. Abdomen alas posticas non superans. Pedes sat graciles, subnudi. Alæ anticæ angulo apicali bene determinato, margine exteriore sat obliquo.

Male. Body moderately stout. Palpi long, ascending; first joint very short; second long, curved, squamous, rising above the vertex; third lanceolate, not more than one-third of the length of

the second, tufted with hairs, which extend beyond it. Antennæ rather slender; setæ short. Abdomen not extending beyond the hind wings. Legs rather slender, nearly bare; spurs long. Wings moderately broad. Fore wings with the apical angle well defined; exterior border rather oblique.

1. EORDÆA PELEUSALIS.

Mas. *Cinerea, fusco conspersa; palpi longi, ascendentes, subarcuati, subpilosi, articuli 3i fasciculo nigro; alæ anticæ subpurpurascentes, apice non rotundatæ, margine exteriore sat obliquo, lineis pallidis undulatis indistinctis, orbiculari et reniformi albis, hac informi fusco conspersa, illa parva; posticæ lineis subobsoletis.*

Male. Cinereous, flecked with brown, especially on the thorax and fore wings; under side brownish cinereous. Third joint of the palpi tufted with black hairs. Fore wings with a slight purplish tinge; lines pale, undulating, indistinct; marginal lunules blackish brown; orbicular and reniform marks white; the former small; the latter irregular and flecked with brown. Hind wings with the lines almost obsolete. Length of the body 5 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 49. ENSIPIA.

Mas. Corpus sat robustum. Palpi validi, compressi, porrecti, densissime fimbriati; articulus 2us longus; 3us brevis. Antennæ subsetosæ. Abdomen longiusculum, alas posticas superans. Pedes validi; tibiæ dense fimbriatæ; calcaria longissima. Alæ anticæ subfalcatæ, margine exteriore angulato antice subexcavato; posticæ subdenticulatæ.

Male. Body moderately stout. Palpi stout, compressed, porrect, most densely fringed to their tips; second joint long; third short. Antennæ moderately long, with short setæ. Abdomen rather long, extending beyond the hind wings. Legs stout; tibiæ densely fringed, especially the fore pair, which are short; spurs very long. Wings moderately broad. Fore wings subfalcate, with a distinct angle in front of the middle of the exterior border, whose fore part is slightly excavated. Hind wings slightly denticulated.

1. Ensipia Lamusalis.

Mas. *Testacea; alæ gutta discali subtus punctisque marginalibus fuscis; alæ anticæ lineis tribus rectis obliquis cervinis intus diffusis, orbiculari punctiformi et reniformi incompleta cervinis.*

Male. Testaceous. Wings with brown marginal points; a brown discal dot on each beneath. Fore wings with three fawn-coloured straight oblique lines, which are diffuse on the inner side, and almost obsolete beneath; punctiform orbicular mark and incomplete reniform mark of the same hue. Length of the body 7 lines; of the wings 14 lines.

a. Ega. From Mr. Bates' collection.

Genus 50. ILATTIA.

Mas et fœm.—Corpus gracile, læve. Proboscis brevis. Palpi breves, compressi, ascendentes, pubescentes, vix arcuati; articulus 2us antice fimbriatus; 3us lanceolatus, 2i dimidio non longior. Antennæ simplices. Thorax squamosus. Abdomen longiusculum, attenuatum, alas posticas vix superans. Pedes sat graciles, non pilosi, calcaribus longissimis. Alæ anticæ apice subrotundatæ, margine exteriore subrecto. *Mas.*—Antennæ breves, validæ. *Fœm.*—Antennæ longiores, graciliores.

Male and female.—Body slender, smooth. Proboscis short. Palpi short, compressed, ascending, pubescent, hardly curved; second joint not extending to the vertex, fringed in front; third lanceolate, not more than half the length of the second. Antennæ simple, short and stout in the male, longer and more slender in the female. Thorax squamous. Abdomen attenuated, rather long, hardly extending beyond the hind wings. Legs rather slender, pubescent, not pilose; spurs very long. Wings moderately broad. Fore wings with the apical angle slightly rounded; exterior border nearly straight, moderately oblique.

1. Ilattia Cephusalis.

Mas et fœm.—*Cinerea; alæ lineis denticulatis obscurioribus valde indistinctis, submarginali pallida; anticæ tessello discali interiore nudo semihyalino concavo albido, orbiculari et reniformi obsoletis.* Mas.—*Palpi intus albi.* Fœm.—*Palpi albidi.*

Male and female.—Cinereous, paler beneath. Wings with the lines denticulated, a little darker than the ground-colour, very indistinct; marginal line pale; fringe darker at the base. Fore wings with a bare semihyaline concave whitish compartment in the areolet near the base; orbicular and reniform marks obsolete; some whitish points along the costa towards the tip. *Male.*—Palpi white on the inner side. *Female.*—Palpi whitish. Length of the body 5 lines; of the wings 11 lines.

a, *b*. Shanghai. From Mr. Fortune's collection.

Genus 51. CATADA.

Fœm. Corpus robustum, læve. Palpi longi, compressi, arcuati; non articulus 2us breviter hirsutus; 3us nudus, linearis, gracillimus, 2o longior. Antennæ glabræ, validæ, squamosæ. Abdomen depressum, alas posticas perpaullo superans. Pedes nudi, sat graciles, calcaribus longissimis; tibiæ anticæ brevissimæ. Alæ anticæ acute rectangulatæ, margine exteriore flexo.

Female. Body stout, smooth. Proboscis short. Palpi long, compressed, curved, remote in front from the head and rising much above it; second joint with thick-set short hairs in front; third bare, linear, very slender, longer than the second. Antennæ bare, stout, squamous, shining. Abdomen somewhat flat, extending very little beyond the hind wings. Legs bare, rather slender; spurs very long; fore tibiæ very short, with an appendage beneath. Wings moderately broad. Fore wings acutely rectangular at the tips; exterior border somewhat bent in the middle, not oblique in front, very oblique hindward.

This genus approaches very near to the *Noctuites*.

1. CATADA GLOMERALIS.

Fœm. *Ferrugineo-fusca, subtus albido-cinerea; oculi albo marginati; thorax linea antica transversa alba; abdominis latera subtus albo guttata; alæ anticæ iridescentes, linea alba subrecta vix obliqua extus nonnunquam albido-glaucescente diffuse marginata, linea interiore fusca undulata valde indistincta, submarginali e guttis fuscis pallido marginatis, orbiculari e gutta fusca, reniformi obsoleta, litura discali subtus albida.*

Female. Ferruginous-brown, whitish cinereous beneath. Head very smooth, white about the eyes; second joint of the palpi speckled with white, white on the inside at the base. Thorax with a white transverse line in front. Abdomen with the hind borders of the segments pale; under side with black dots along each side. Fore wings with an iridescent tinge; a white nearly straight and upright line beyond the middle, sometimes diffusedly bordered with whitish glaucous on the outer side; submarginal line composed of brown dots with irregular pale borders; interior line brown, undulating, very indistinct; orbicular mark forming a brown dot; reniform not apparent. Hind wings with a pale brown-marked fringe. Wings beneath the exterior and submarginal lines brown, the former denticulated, the latter formed of dots. Fore wings with a whitish discal mark, and with the lines less complete than in the hind wings, where the discal mark is brown. Length of the body 4 lines; of the wings 9 lines.

Borneo.

a, b. Ceylon. Presented by R. Templeton, Esq.

2. CATADA? CAPTIOSALIS.

Mas. *Ferrugineo-fusca; antennæ validæ, setulosæ; abdominis latera basi testacea; pedes antici fasciculati; alæ anticæ apice subrotundatæ, lineis pallide testaceis undulatis nigro-fusco marginatis, punctis marginalibus nigro-fuscis, reniformi nigro-fusca sublunata; posticæ fuscescente-cinereæ, litura discali lineisque duabus fuscis subtus conspicuis.*

Male. Ferruginous-brown. Antennæ stout, setulose. Abdomen cinereous-brown, somewhat testaceous on each side at the base. Fore legs tufted with long hairs. Fore wings somewhat rounded at the tips; the four usual lines pale testaceous, undulating, bordered

with dark brown; marginal points dark brown; reniform mark dark brown, sublunate, nearer than usual to the base of the wing. Hind wings brownish cinereous, with a brown discal mark and two brown lines, which are almost obsolete above, but very distinct on the under side. Length of the body 4 lines; of the wings 10 lines.

The characters of this species differ so much from those of the preceding one that they can hardly be included in the same genus, and they are but placed together until more specimens are known.

a Ceylon. Presented by R. Templeton, Esq.

Genus 52. OLYBAMA.

Fœm. Corpus vix robustum. Palpi compressi, pubescentes, erecti; articulus 2us arcuatus, subfimbriatus; 3us lanceolatus, rectus, gracilis, 2o brevior. Antennæ graciles, simplices, corporis dimidio longiores. Abdomen alas posticas vix superans. Pedes sat graciles, subnudi. Alæ sat angustæ; anticæ angulo apicali rotundato, margine exteriore subconvexo vix obliquo.

Female. Body hardly stout. Proboscis short. Palpi compressed, pubescent, erect, rising above the vertex; second joint curved, slightly fringed in front; third lanceolate, straight, slender, rather shorter than the second. Antennæ slender, simple, more than half the length of the body. Abdomen hardly extending beyond the hind wings. Legs rather slender, almost bare; spurs long. Wings rather narrow. Fore wings with the apical angle rounded; exterior border slightly convex, hardly oblique.

1. Olybama Thelephusalis.

Fœm. *Fusca; alæ anticæ pallide ferrugineæ, fusco variæ, nigro conspersæ, lituris discalibus lineisque obsoletis; posticæ cinereæ, lineis subtus duabus diffusis denticulatis fuscis.*

Female. Brown. Abdomen, hind wings and under side cinereous. Fore wings mostly dull pale ferruginous, with numerous minute black speckles, which are most prevalent along the costa; lines and discal marks obsolete. Hind wings beneath with two diffuse brown denticulated lines. Length of the body 3½ lines; of the wings 10 lines.

a. South Africa. Presented by Dr. A. Smith.

Genus 53. MELIABA.

Mas. Corpus sat robustum. Palpi compressi, validi, longi, pilosi, erecti; articulus 2us vix arcuatus, apicem versus fasciculatus; 3us linearis, fasciculatus, 2i dimidio vix longior. Antennæ longæ. Pectus pilis longis vestitum. Abdomen longissimum, lanceolatum, alas posticas longe superans; fasciculus apicalis longiusculus, compressus. Pedes longi, tibiis posterioribus femoribusque fimbriatis, calcaribus longissimis. Alæ anticæ acute rectangulatæ, margine exteriore subflexo.

Male. Body moderately stout. Proboscis short. Palpi compressed, stout, long, pilose, erect; second joint hardly curved, slightly fringed on both sides, tufted on the hind side towards the tip; third joint linear, tufted on the hind side, little more than half the length of the second. Antennæ long; each joint with two minute setæ. Pectus with long hairs. Abdomen lanceolate, very long, extending for nearly half its length beyond the hind wings; apical tuft compressed, rather long. Legs long; femora and posterior tibiæ fringed with long hairs; spurs very long. Wings moderately broad. Fore wings very straight along the costa, acutely rectangular at the tips; exterior border slightly bent.

This genus is one of the aberrant forms which does not associate with any of the recorded families of *Noctuites*. The silver mark on the fore wings resembles that of the *Plusiidæ*.

1. MELIABA PELOPSALIS.

Mas. *Albido-testacea; alæ anticæ subiridescentes, fusco subconspersæ, litura subcostali, macula costali et reniformi obliqua perangusta fuscis, litura discali furcata argentea micante; posticæ pallide cinereæ.*

Male. Whitish testaceous. Fore wings slightly iridescent, thinly and minutely speckled with brown; a brown subcostal mark at a little before the middle, and a brown costal spot in front of the reniform mark, which is brown, oblique, and very narrow; behind it obliquely there is a forked bright silver mark; a black dot in the disk towards the exterior border, and some short black lines along the exterior part of the costa. Hind wings pale cinereous. Wings beneath with a brown nearly straight exterior line. Length of the body 9 lines; of the wings 16 lines.

a. Port Natal. From M. Gueinzius' collection.

Genus 54. ISANA.

Mas. Corpus sat gracile. Palpi compressi, reflexi, thoracis marginem posticum attingentes; articulus 2us valde arcuatus; 3us rectus, fasciculatus, 2o non brevior. Antennæ breves, validæ, subserratæ, setosæ. Abdomen alas posticas vix superans; fasciculus apicalis compressus. Pedes validi, vix pilosi. Alæ longiusculæ, sat angustæ; anticæ acute rectangulatæ, margine exteriore perobliquo vix convexo.

Male. Body rather slender. Proboscis short. Palpi compressed, reflexed over the head to the hind part of the thorax; first joint short; second pubescent, much curved, extending to the fore part of the thorax; third straight, tufted with long hairs, as long as the second. Antennæ short, stout, subserrate; each joint with two moderately long setæ. Abdomen hardly extending beyond the hind wings; apical tuft compressed. Legs stout, hardly pilose; spurs long. Wings rather long and narrow. Fore wings very straight along the costa, acutely rectangular at the tips; exterior border very oblique, hardly convex.

1. ISANA LARUSALIS.

Mas. *Albida; abdomen fusco fasciatum; alæ anticæ fuscæ; costa albido-testacea, lineis, venis et orbiculari punctiformi albis, lineis interiore et exteriore rectis obliquis latis parallelis, submarginali valde angulata, reniformi angusta extus concava albo marginata; posticæ pallide fuscæ, basi albidæ, linea submarginali denticulata.*

Male. Whitish, more cinereous beneath. Palpi with testaceous hairs towards the tips. Antennæ dark brown. Thorax flecked with brown in front. Abdomen with incomplete brown bands. Fore wings brown, whitish testaceous and with some brown marks along the costa; lines and veins white; interior and exterior lines straight, oblique, broad, parallel; submarginal line deeply angular; marginal lunules blackish, bordered with white; fringe with whitish testaceous marks; orbicular mark white, punctiform; reniform narrow, concave exteriorly, with a white border. Hind wings pale brown, whitish towards the base; interior line obsolete; submarginal line denticulated; under side with a large brown

discal mark and an interior brown dot. Length of the body 5 lines; of the wings 13 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 55. BERRESA.

Mas. Corpus robustum. Proboscis brevis. Palpi breves, ascendentes; articulus 2us subtus dense pilosus; 3us linearis, 2o brevior. Antennæ graciles, simplices, corporis dimidio valde longiores. Thorax crassus, squamosus. Abdomen alas posticas non superans. Pedes validi, pilosi, calcaribus longis. Alæ breviusculæ, latiusculæ; anticæ subtus sacculo instructæ, costa interiore convexa, margine exteriore vix obliquo; posticæ pilis apud marginem interiorem longissimis.

Male. Body stout. Proboscis short. Palpi short, ascending; second joint thickly pilose beneath; third linear, conical at the tip, a little shorter than the second. Antennæ slender, simple, much more than half the length of the body. Thorax squamous, very thick. Abdomen conical, not extending beyond the hind wings. Legs stout, pilose; spurs long. Wings rather short and broad. Fore wings convex along the basal part of the costa, rectangular at the tips; exterior border hardly oblique; a subcostal sack on the under side before the middle and a corresponding glabrous mark above. Hind wings with very long hairs along the interior border.

This genus differs widely from the typical forms of *Herminidæ*; it is allied to *Locastra* and *Imma*, and like them has a resemblance to some of the *Noctuites*.

1. BERRESA NATALIS.

Mas. *Cinereo-fusca; alæ anticæ lineis albidis denticulatis indistinctis nigro conspersis, reniformi e punctis albis; posticæ cinereæ, linea obscuriore subtus conspicua.*

Male. Cinereous-brown. Thorax and fore wings minutely mottled. Abdomen and hind wings cinereous. Fore wings with indistinct whitish denticulated lines, which are accompanied by black specks; reniform mark indicated by white points. Hind wings with a darker line, which can hardly be traced on the upper side. Length of the body 3½ lines; of the wings 7 lines.

a, b. Ceylon. From Mr. Stevens' collection.

Genus 56. CHUSARIS.

Fœm. Corpus sat gracile. Fasciculus frontalis trigonus. Proboscis brevis. Palpi longi, angulati; articulus 2us validus, porrectus, supra pilosus; 3us lanceolatus, gracilis, brevior. Antennæ simplices, non longæ. Abdomen alas posticas non superans. Pedes validi, non pilosi, calcaribus longis. Alæ longiusculæ, non latæ; anticæ costa vix convexa, margine exteriore subobliquo.

Female. Body rather slender. Frontal tuft triangular. Proboscis short. Palpi long; second joint stout, porrect, pilose above; third lanceolate, slender, much shorter than the second, with which it forms a distinct angle. Antennæ simple, little more than half the length of the body. Abdomen not extending beyond the hind wings. Legs stout, bare; spurs long. Wings rather long, not broad. Fore wings at the tips forming a sharply defined right angle; costa hardly convex; exterior border slightly oblique.

1. CHUSARIS RETATALIS.

Cinerea; palpi ex parte albidi; alæ anticæ punctis costalibus pallidis plus minusve elongatis, lineis fuscis denticulatis diffusis incompletis ex parte duplicatis, submarginali pallido marginata, reniformi magna subtrigona obscure fusca, puncto discali exteriore alteroque basali nigris; posticæ fuscescente-cinereæ, litura subtus discali atra.

Cinereous. Palpi partly whitish. Abdomen, hind wings and under side brownish cinereous. Wings with blackish lunules; marginal line pale. Fore wings with pale more or less elongated points along the costa; lines brown, denticulated, diffuse, incomplete, partly double; submarginal line bordered with pale cinereous; reniform mark large, dark brown, irregularly triangular; a black point in the disk beyond it and another at the base. Hind wings with the lines visible beneath, where there is a deep black discal mark. Length of the body 2½ lines; of the wings 6½ lines.

a. Ceylon. Presented by R. Templeton, Esq.

Genus 57. CORGATHA.

Mas. Corpus læve, vix robustum. Proboscis brevissima. Palpi porrecti, capite transverso non longiores; articulus 2us supra fasciculatus; 3us conicus, brevissimus. Antennæ sat validæ, setis

minimis. Abdomen alas posticas non superans. Pedes nudi, breviusculi, sat graciles. Alæ anticæ vix subfalcatæ, acute rectangulatæ, margine exteriore obliquo subconvexo.

Male. Body smooth, hardly stout. Proboscis very short. Palpi porrect, not longer than the breadth of the head; second joint with a thick short tuft above; third conical, not more than one-fourth of the length of the second. Antennæ rather stout, very minutely setose. Abdomen not extending beyond the hind wings. Legs bare, rather short and slender; spurs long. Wings moderately broad. Fore wings inclining to the subfalcate form, acutely rectangular at the tips; exterior border slightly convex, moderately oblique.

1. CORGATHA ZONALIS.

Mas. *Pallide testacea; palpi cervini; alæ anticæ lineis albidis obliquis fusco ex parte marginatis, interiore subrecta, exteriore subundulata, submarginali valde angulosa, punctis marginalibus nigris, reniformi e gutta nigricante albido marginata.*

Male. Pale testaceous. Palpi fawn-colour. Abdomen, hind wings and under side whitish. Wings with the lines whitish; interior and exterior lines oblique, partly bordered with brown; interior line almost straight, obsolete in the hind wings; exterior line slightly undulating; submarginal line very zigzag; marginal points black, minute; reniform mark represented by a blackish whitish-bordered dot. Length of the body 2 lines; of the wings 5 lines.

a. Ceylon. From Mr. Stevens' collection.

Genus 58. EGNASIA.

Corpus vix robustum. Proboscis breviuscula. Palpi longi, graciles, ascendentes, pubescentes; articulus 2us subarcuatus; 3us lanceolatus, 2o brevior. Antennæ graciles, subsetulosæ, corporis dimidio parum longiores. Abdomen alas posticas non superans. Pedes pubescentes, vix robusti; tibiæ posticæ nonnunquam subfasciculatæ. Alæ amplæ, margine exteriore plus minusve flexo nonnunquam denticulato.

Body hardly stout. Proboscis rather short. Palpi long, slender, compressed, ascending, pubescent; second joint slightly curved; third lanceolate, shorter than the second. Antennæ slender, very minutely setulose, little more than half the length of the body.

Abdomen not extending beyond the hind wings. Legs pubescent, hardly stout; spurs long; hind tibiæ slightly tufted. Wings ample; exterior border more or less bent, and in some species denticulated.

Asia.

A. Alæ lituris vitreis.
  A. Alæ macula nulla submarginali.
    a. Alæ linea exteriore et litura discali non contiguis. ephyrodalis, *Walk.*
    b. Alæ linea exteriore et litura discali contiguis. participalis, *Walk.*
  B. Alæ macula submarginali. - - - accingalis, *Walk.*
B. Alæ lituris nullis vitreis.
  A. Alæ spatio medio pallidiore. - - usurpatalis, *Walk.*
  B. Alæ spatio medio non pallidiore.
    a. Alæ anticæ plaga nulla costali. - Talusalis, *Walk.*
    b. Alæ anticæ plaga costali. - - Trimantesalis, *Walk.*

1. Egnasia ephyrodalis.

Fœm. *Cervina; palporum articulus 3us subfasciculatus; alæ lineis nigricantibus, exteriore undulata, submarginali denticulata, margine exteriore subdenticulato, fimbria albida, litura discali vitrea; anticæ gutta interiore vitrea, litura apicali albida, margine exteriore flexo; posticæ margine exteriore biangulato.*

Female. Fawn-colour, mostly whitish and speckled beneath. Third joint of the palpi slightly tufted. Wings with blackish slender lines; exterior line undulating; submarginal line with numerous denticulations; exterior border slightly denticulated; fringe mostly whitish; a discal somewhat kidney-shaped vitreous spot representing the reniform mark. Fore wings with the interior line slender; vitreous spot more divided than that of the hind wings and preceded by a vitreous dot; a whitish apical mark; exterior border bent in the middle. Hind wings with the exterior border slightly excavated between two angles. Length of the body 5½—6 lines; of the wings 13—14 lines.

a. North Hindostan. From Mr. James' collection.
b. Ceylon. Presented by R. Templeton, Esq.
c. Ceylon. From Mr. Stevens' collection.
d. Silhet. From Mr. Argent's collection.

2. EGNASIA ACCINGARIS.

Mas. *Testacea; palporum articulus 3us nigricans, apicem versus albidus nudus; alæ non denticulatæ, linea submarginali nigricante tenui obliqua vix undulata, interiore et exteriore minus determinatis, gutta discali vitrea nigricante marginata, margine exteriore subflexo; anticæ reniformi vitrea nigricante marginata, litura submarginali nigricante.*

Male. Testaceous. Body whitish beneath. Third joint of the palpi blackish, whitish and bare towards the tip, little more than half the length of the second. Wings not denticulated, with the submarginal line blackish, slender, oblique, hardly undulating; exterior and interior lines more indistinct and irregular; orbicular mark indicated by a vitreous blackish-bordered dot; marginal lunules blackish, slender, connected; exterior border slightly bent in the middle. Fore wings with the reniform mark vitreous, blackish-bordered, much excavated on the outer side; a blackish mark near the exterior border at a little in front of the angle. Length of the body 4½ lines; of the wings 11 lines.

This may be the male of the preceding species, notwithstanding the difference in the markings and in the exterior border.

a. Ceylon. Presented by R. Templeton, Esq.

3. EGNASIA PARTICIPALIS.

Mas. *Testacea, cervino conspersa; palporum articulus 3us albidus, fasciculo basali nigricante; alæ lineæ exteriore diffusa indistincta, submarginali nigricante tenui vix undulata, macula discali vitrea; anticæ linea interiore fusca distincta vix undulata, orbiculari e gutta vitrea, margine exteriore subflexo vix denticulato; posticæ margine exteriore subdenti culato.*

Male. Testaceous, partly speckled with fawn-colour. Body whitish beneath. Third joint of the palpi whitish, with a slight blackish tuft towards the base. Wings with the submarginal line blackish, slender, hardly undulating; exterior line diffuse, indistinct, contiguous to a vitreous spot, which represents the reniform mark; marginal lunules brown, slender, connected. Fore wings with the interior line distinct, brown, hardly undulating: reniform

mark excavated on the outer side; orbicular forming a vitreous dot; exterior border hardly denticulated, very slightly bent. Hind wings with the exterior border slightly denticulated. Length of the body 4 lines; of the wings 10 lines.

a. Ceylon. Presented by R. Templeton, Esq.

4 EGNASIA USURPATALIS.

Fœm. *Albido-cinerea; palporum articulus 3us linearis, albidus, nigricante fasciatus; thorax rufescente-cervinus; alæ fusco subconspersæ, extus rufescente-cervinæ, linea exteriore cinerea distincta subundulata costam versus valde flexa, submarginali denticulata costam versus dilatata et distincta, margine exteriore subflexo non denticulato; anticæ linea interiore cinerea vix undulata, fascia adhuc interiore rufescente-cervina; posticæ litura apud angulum interiorem obscure fusca.*

Female. Whitish cinereous. Third joint of the palpi linear, whitish, with a blackish band. Thorax reddish fawn-colour. Wings slightly and minutely speckled with brown; exterior part mostly reddish fawn-colour; exterior line cinereous, distinct, slightly undulating, much bent inward towards the costa; submarginal line denticulated, very indistinct, except towards the costa, where it is dilated and distinct; marginal points black; marginal line brown; exterior border slightly bent, not denticulated. Fore wings with a reddish fawn-coloured band near the base, bounded on the outer side by the cinereous interior line, which is hardly undulating. Hind wings with a dark brown mark near the interior angle. Length of the body 5 lines; of the wings 12 lines.

This species has much resemblance to the *Thermesidæ*, and has also an outward likeness to the *Geometrites*.

5. EGNASIA TALUSALIS.

Fœm. *Pallide cervina; palpi longi, reflexi, subarcuati; articulus 3us 2o longior; pedes non pilosi; alæ amplæ, lineis undulatis obscurioribus subobsoletis, submarginali fusca, distincta duplicata; anticæ linea submarginali angulata postice nigro notata, striga marginali diffusa fusca, orbiculari et reniformi albidis fusco marginatis, hac parva perangusta, illa punctiformi; posticæ margine exteriore subdenticulato.*

Female. Pale fawn-colour. Palpi long, reflexed over the head and the fore part of the thorax; second and third joints slightly curved; second vertical, pilose on the hind side; third bare, acicular, very acute, longer than the second. Abdomen obtuse at the tip. Legs not pilose. Wings ample; lines undulating, a little darker than the ground-colour, almost obsolete; submarginal line brown, distinct, double and in the hind wings treble, forming in the fore wings an angle opposite the bend in the exterior border; marginal points black; marginal festoon brown, undulating. Fore wings with some black marks on the inside of the submarginal line hindward; a brown diffuse streak extending from the angle of this line to the exterior border; a whitish brown-bordered point on the fore part of the same line; orbicular and reniform marks whitish, brown-bordered, the former punctiform, the latter small and very narrow; under side with these marks forming two black dots, of which one appears beneath the hind wings, the latter having the exterior border slightly denticulated. Length of the body 5½ lines; of the wings 13 lines.

a. Hindostan. From Archdeacon Clerk's collection.

6. Egnasia Trimantesalis.

Fœm. *Ferrugineo-fusca, subtus lutescens; tarsi albo annulati; alæ lineis nigricantibus undulatis non bene determinatis, submarginali valde incompleta, linea marginali, margine exteriore subangulato; anticæ plaga costali subapicali oblonga cinerea; posticæ margine interiore subtus pallido.*

Female. Ferruginous-brown; under side luteous, much speckled. Palpi moderately long; third joint shorter than the second. Joints of the tarsi with white rings. Wings with the interior, middle and exterior lines blackish, undulating; submarginal line very indistinct and incomplete; marginal line black; exterior border slightly angular in the middle. Fore wings with a cinereous oblong costal patch, adjoining the outer side of the bend in the exterior line, and including the elongated whitish costal points; orbicular and reniform marks indistinct. Hind wings fringed along the interior border, which is pale on the under side. Length of the body 5 lines; of the wings 15 lines.

a. Silhet. From the Rev. J. Stainforth's collection.

Australasia.

A. Alæ maculis nullis exterioribus atris.
  A. Alæ posticæ vitta submarginali nigra. - Athemonalis, *Walk.*
  B. Alæ posticæ vitta nulla submarginali.
    a. Alæ linea exteriore albida. - - Minoreusalis, *Walk.*
    b. Alæ linea exteriore non albida.
      a. Alæ anticæ basi pallidiores. - - Hylaxalis, *Walk.*
      b. Alæ anticæ basi non pallidiores. - Aviusalis, *Walk.*
B. Alæ maculis exterioribus atris. - - Parsimonalis, *Walk.*

7. Egnasia Aviusalis.

Fœm. *Ferrugineo-fusca, subtus rufescente-testacea; alæ lineis obscure fuscis, interiore undulata, exteriore subrecta extus cinereo marginata, lituris adhuc exterioribus luteis, linea submarginali fusca valde indistincta, spatio marginali nigro; anticæ orbiculari et reniformi luteis; posticæ macula apud angulum interiorem nigricante.*

Female. Nearly allied to *E. Trimantesalis.* Ferruginous-brown, reddish testaceous beneath. Palpi pubescent, nearly vertical, rather long; second joint slightly curved; third straight, linear, acute at the tip, shorter than the second. Legs rather stout; joints of the tarsi with white rings. Wings with the lines dark brown; interior line undulating; exterior line nearly straight, bordered with cinereous on the outer side, curved inward towards the costa of the fore wings, with some luteous marks near its outer side; submarginal line brown, very slight, irregular and indistinct; space beyond the exterior line mostly pale; marginal line black; fringe interlined; under side with incomplete lines. Fore wings with the orbicular and reniform marks luteous, the latter nearly round. Hind wings with a blackish spot near the interior angle; interior border whitish beneath, fringed with pale yellow hairs. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

8. Egnasia Athemonalis.

Mas. *Ferrugineo-fusca, corpore costâque subtus albidis; palpi nigricante fasciati; alæ subglaucescentes, linea exteriore nigricante denticulata, submarginali ferruginea valde indistincta, fimbria ferruginea apud medium nigra; anticæ lineâ interiore nigra latiuscula valde flexa, lineâ media fusca undulata, orbiculari et reniformi ferrugineis flavo conspersis; posticæ vitta postica recta nigra ferrugineo interlineata, litura discali albida subtus magna, margine exteriore denticulato.*

Male. Ferruginous-brown, rather stout; under side with the body and the costal region of the fore wings mostly whitish. Palpi with blackish bands; third joint as long as the second. Antennæ stout, thickly beset with minute setose tufts. Tarsi with white rings. Wings with a glaucous tinge; exterior line blackish, denticulated, especially in the hind wings; submarginal line ferruginous, very indistinct; marginal line black; fringe ferruginous, black in the middle part, where there is a slight bend. Fore wings with white speckles along the costa; interior line black, rather broad, much bent; middle line brown, undulating; orbicular and reniform marks ferruginous, with pale yellow speckles, whitish beneath, where there are some black exterior streaks. Hind wings with a straight black stripe, interlined with ferruginous, and extending from the interior angle along the exterior border, which is denticulated; discal mark whitish, much larger on the under side, where the interior line is black, distinct, and undulating. Length of the body 7 lines; of the wings 15 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

9. Egnasia Hylaxalis.

Fœm. *Ferrugineo-fusca; thorax pallide ferrugineus; palpi cinerei; alæ albo aut pallido purpurascente conspersæ, lineis fuscis denticulatis albido ex parte marginatis, fimbria nigricante duplicata pallido notata; anticæ basi ferrugineæ, linea costuli flexa alba, strigis duabus exterioribus luteis; orbiculari et reniformi albis subtus nigro notatis; posticæ linea versus marginem exteriorem lutea.*

Female. Ferruginous-brown. Head and thorax pale ferruginous. Palpi cinereous; third joint a little shorter than the second. Antennæ rather short and stout. Wings with white or pale

purplish speckles; lines brown, denticulated, irregular, partly bordered with whitish; fringe blackish, double, with pale intervals; marginal lunules black; marginal line pale; under side with white speckles, which are mostly arranged in denticulated lines. Fore wings ferruginous at the base, with some black streaks; a white irregular line proceeding from the costa and returning thereto, and thus including the white costal subapical points, pale; its hind part contiguous to two luteous streaks; orbicular and reniform marks white, more distinct and complete beneath, where their disks are black. Hind wings with a luteous angulose line on the outer side of the exterior one, and indicated in the fore wings by the two luteous streaks. Length of the body 5 lines; of the wings 12½ lines.

Sarawak, Borneo. In Mr. Saunders' collection.

10. EGNASIA MINEREUSALIS.

Fœm. *Testaceo-cinerea, fusco dense conspersa; alæ linea exteriore alba subundulata fusco marginata, submarginali testacea, margine exteriore denticulato; anticæ orbiculari et reniformi magnis semihyalinis, hac magna nigro bipunctata, lineis basali et interiore pallidis undulatis indistinctis; posticæ litura disculi alba semihyalina.*

Female. Testaceous-cinereous, thickly speckled with brown. Third joint of the palpi slightly curved, a little shorter than the second. Wings with the exterior line white, minutely undulating, bordered with brown; submarginal line testaceous, undulating, deeply angular in the hind wings; marginal lunules blackish, bordered with white on the inner side, and on the outside by the testaceous marginal line; exterior border denticulated, slightly bent. Fore wings with the orbicular and reniform marks white, semihyaline; the former as a dot; the latter large, and including two blackish points, contiguous to the exterior line; basal and interior lines pale, undulating, indistinct. Hind wings with a white semihyaline discal mark, accompanied by a black one, and most concise on the under side. Length of the body 6 lines; of the wings 16 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

11. Egnasia? Parsimonalis.

Fœm. *Fusca, albido ex parte suffusa; caput fasciculatum; antennæ albo annulatæ; alæ linea exteriore albida subundulata, fascia incompleta adhuc exteriore e maculis variis atris testaceo marginatis, linea submarginali subobsoleta, margine exteriore subflexo non denticulato; anticæ linea interiore fusca undulata diffusa.*

Female. Brown, partly suffused with whitish. Head with a frontal tuft. Third joint of the palpi linear, very acute at the tip, much shorter than the second. Antennæ minutely setose, with white rings. Wings with the exterior line whitish, slightly undulating, bent inward and more distinct towards the costa of the fore wings; beyond it a deep black very irregular band, especially interrupted in the fore wings, and composed of testaceous-bordered spots of various size; submarginal line almost obsolete; marginal lunules black; marginal line testaceous; exterior border not denticulated, slightly bent; under side with the lines obsolete. Fore wings with the interior line brown, undulating, diffuse; orbicular and reniform marks nearly obsolete. Length of the body 3½ lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 59. THROANA.

Mas. Corpus vix robustum. Palpi pubescentes, oblique ascendentes; articuli 2us et 3us lineares; 3us 2o paullo brevior et gracilior, apice obliquus. Antennæ vix serratæ, setis longiusculis. Abdomen longum, apicem versus attenuatum, alas posticas sat superans. Pedes nudi, longi, graciles; medii longissimi, subfimbriati, calcaribus nullis; postici calcaribus longissimis. Alæ anticæ angustæ, subfalcatæ, valde acutæ; costa apud medium subconcava, margine exteriore postice denticulato et valde obliquo.

Male. Body hardly stout. Proboscis short. Palpi pubescent, moderately long, obliquely ascending; second and third joints linear; third a little shorter and more slender than the second, oblique at the tip. Antennæ very minutely serrated; the teeth beset with rather long bristles. Abdomen long, attenuated towards the tip, extending some distance beyond the hind wings. Legs bare,

long, slender; middle legs very long, without spurs, slightly fringed to the tips of the tarsi; hind spurs very long. Fore wings subfalcate, rather long, very acute; costa slightly concave in the middle part; exterior border not oblique in front, denticulated, and very oqlique hindward. Hind wings with the exterior border very angular in the middle; its hind part denticulated.

This genus is very remarkable on account of the singular structure of the middle legs.

1. THROANA AMYNTORALIS.

Mas. *Testacea, subtus cervina; alæ anticæ lineis interiore et submarginali fuscis, hac denticulata, illa incompleta, exteriore albida denticulata antice flexa, plaga costali subapicali magna albido-cinerea, reniformi magna cinereo-fusca subtus cinerea nigro bipunctata, orbiculari supra obsoleta subtus cinerea; posticæ linea exteriore albida arcuata, cuneis adhuc exterioribus albidis duplicatis.*

Male. Testaceous, mostly fawn-colour beneath. Fore wings with the interior line brown, incomplete, indistinct; exterior line whitish, denticulated, much bent in front; submarginal line brown, denticulated, slight; marginal lunules brown; a large subapical whitish cinereous patch adjoining the costa, where there are three white points; reniform mark large, cinereous-brown, cinereous and with two black points beneath, where the orbicular is also cinereous. Hind wings with the exterior line whitish, curved, having along its outer side two rows of whitish cuneiform marks; marginal lunules with whitish borders. Length of the body 6 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 60. ONEVATHA.

Fœm. Corpus gracile. Palpi porrecti, compressi, pubescentes, longiusculi; articulus 2us supra apicem versus fasciculatus; 3us supra fasciculatus, 2o non brevior. Antennæ subsetosæ. Abdomen lanceolatum, alas posticas paullo superans. Pedes longiusculi, subnudi, sat graciles, calcaribus longissimis. Alæ subdenticulatæ; anticæ apice rectangulatæ, margine exteriore subflexo postice perobliquo.

Female. Body slender. Probuscis short. Palpi porrect, compressed, pubescent, rather long; second joint tufted above towards the tip; third tufted above along its whole length, as long as the second. Antennæ minutely setose. Abdomen lanceolate, extending a little beyond the hind wings. Legs rather long and slender, almost bare; spurs very long. Wings moderately broad, slightly denticulated. Fore wings straight along the costa, rectangular at the tips; exterior border slightly bent in the middle; its hind part very oblique.

1. ONEVATHA ALSUSALIS.

Fœm. *Testacea, fusco ex parte nebulosa, subtus albido-testacea; alæ lineis interiore et exteriore nigricantibus, linea submarginali testacea denticulata, macula marginali obscure fusca; anticæ orbiculari et reniformi albis, hac angusta.*

Female. Testaceous, partly shaded with brown, whitish testaceous beneath, where the wings have broad brown bands and denticulated whitish lines. Wings with the interior and exterior lines blackish, denticulated; submarginal line testaceous, denticulated, the space about it brown; a darker brown mark opposite the middle of the border; marginal lunules blackish. Fore wings with the orbicular and reniform marks white, the former represented by a small dot, the latter narrow. Length of the body 4½ lines; of the wings 10 lines

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 61. PINGRASA.

Mas. Corpus robustum. Proboscis brevis. Palpi erecti; articulus 2us validus, pubescens, subarcuatus; 3us gracilis, lanceolatus, 2i dimidio brevior. Antennæ graciles, filiformes, corporis dimidio longiores. Abdomen alas posticas paullo superans, fasciculo apicali compresso. Pedes validi, subnudi, calcaribus longis. Alæ anticæ perforatæ, apice subrotundatæ, costa subconvexa, margine exteriore non obliquo.

Male. Body stout. Proboscis short. Palpi vertical, moderately long; second joint stout, pubescent, slightly curved; third slender, lanceolate, a little less than half the length of the second. Antennæ slender, filiform, a little more than half the length of the

body. Abdomen extending a little beyond the hind wings; apical tuft compressed. Legs stout, almost bare; spurs long. Wings moderately broad. Fore wings slightly convex along the costa and along the exterior border, which is not oblique; apical angle slightly rounded; a subcostal perforation at somewhat before the middle.

1. PINGRASA ACCURALIS.

Mas. *Ferruginea, subtus albida; alæ anticæ lineis pallidioribus denticulatis subobsoletis, reniformi e striga obscure fusca, gutta apicali pallida, punctis marginalibus nigricantibus; posticæ cinereo-fuscæ, apud costam pallide cinereæ.*

Male. Ferruginous. Body almost whitish beneath. Abdomen and hind wings cinereous-brown. Fore wings with almost obsolete indications of denticulated paler lines; reniform mark indicated by a dark brown streak; a pale apical dot; marginal points blackish. Hind wings pale cinereous along the costa. Length of the body 3½ lines; of the wings 8 lines.

a. Ceylon. Presented by R. Templeton, Esq.

ADDENDA TO THE DELTOIDITES.

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PLATYDIA AURAGALIS.

a, *b*. Venezuela. From Mr. Dyson's collection

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HYPENA SOBRIALIS.

Mas. *Fusca; palporum articulus 2us porrectus, vix arcuatus, supra late fimbriatus; 3us lanceolatus, 2i dimidio non longior; alæ anticæ apice rectangulatæ, lineis denticulatis indistinctis vix obscurioribus, linea submarginali cinerea; alæ subtus linea submarginali distincta denticulata cinerea.*

Male. Brown, cinereous and speckled with brown beneath. Second joint of the palpi porrect, hardly curved, broadly fringed above; third lanceolate, not more than half the length of the second, with which it forms an angle. Antennæ minutely setose. Fore wings rectangular at the tips, with the lines denticulated, indistinct, a little darker than the ground-colour; submarginal line cinereous; marginal points blackish. Wings beneath with a distinct denticulated cinereous submarginal line. Length of the body 4 lines; of the wings 11 lines.

a. Nova Scotia. From Lieut. Redman's collection.

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HYPENA HEMONALIS.

Fœm. *Obscure fusca; palpi ciliati, oblique ascendentes, subangulati; articulus 3us 2i dimidio non longior; alæ latiusculæ; anticæ subfalcatæ, lineis interiore et exteriore sordide testaceis nigricante marginatis subrectis, submarginali denticulata indistincta interrupta, macula apicali lunata alba, margine exteriore vix obliqua.*

Female. Dark brown, cinereous-brown beneath. Palpi fringed, obliquely ascending, rising rather high above the head; third joint fringed to the tip, about half the length of the second, with which it forms an obtuse angle. Abdomen not extending beyond the hind wings. Wings rather broad. Fore wings subfalcate; lines dull testaceous, with blackish borders; interior and exterior lines nearly straight; submarginal line denticulate, indistinct, interrupted; a white lunate apical spot; marginal line black, with a testaceous outer border; exterior border hardly oblique. Length of the body 6 lines; of the wings 16 lines.

a. Brazil. From Mr. Stevens' collection.

Hypena Polybealis.

Mas. *Lutea; palpi fimbriati, longissimi suberecti, subangulati; articulus 2us vix arcuatus; 3us quasi securiformis, 2i dimidio non longior; alæ longiusculæ; anticæ subfalcatæ, lineis e punctis nonnullis nigris, maculis costalibus unaque apicali nigris, reniformi rufescente-ferruginea ex parte nigra.*

Male. Luteous. Abdomen and hind wings pale luteous. Palpi fringed, very long, nearly vertical, rising very high above the head; second joint very slightly curved; third full half the length of the second, with which it forms a slight angle, apparently somewhat securiform, the third joint being bare at the tip and very acute. Antennæ minutely setose. Abdomen not extending beyond the hind wings. Wings rather long. Fore wings subfalcate; the four lines very incomplete, indicated by some black points; interior and exterior lines forming two black triangular spots on the costa, and having a black costal spot between them; a black apical spot; marginal lunules black; reniform mark reddish ferruginous, with a smaller black spot adjoining its outer side. Hind wings beneath with a black discal lunule, and with the exterior line complete, denticulated. Length of the body 5 lines; of the wings 16 lines.

This species differs much from all the others in structure, and will form a peculiar group in the genus.

a. Venezuela. From Mr. Dyson's collection.

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HYPENA BATHISALIS.

Fœm. *Ferrugineo-fusca; palpi longi, validi, subangulati, dense fasciculati; articulus 2us oblique ascendens; 3us 2i dimidio longior; pedes validi; alæ amplæ, lineis fuscis denticulatis, submarginali diffusa indistincta; anticæ vix falcatæ, linea media recta obliqua fusca.*

Female. Ferruginous-brown, brownish cinereous beneath. Palpi long, stout, densely tufted; second joint obliquely ascending; third broadly fringed to the tip, more than half the length of the second, with which it forms an obtuse angle. Legs stout. Wings ample; lines brown, denticulated; submarginal line diffuse, indistinct; marginal points black. Fore wings hardly falcate; a straight oblique brown middle line; exterior border hardly oblique, except towards the interior angle. Length of the body 7 lines; of the wings 17 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

HYPENA ECHIONALIS.

Mas. *Cinereo-fusca; palpi fimbriati, erecti, longissimi, vix angulati; articulus 3us vix arcuatus, apice albidus, 2i dimidio non brevior; alæ anticæ apice rectangulatæ non falcatæ, linea recta obliqua albida, spatio costali subapicali cinereo.*

Male. Cinereous-brown, cinereous beneath. Palpi fringed, vertical, very long; third joint hardly curved, whitish at the tip, full half the length of the second, with which it forms a very slight angle. Antennæ hardly setose. Abdomen not extending beyond the hind wings. Fore wings rectangular at the tips, not falcate; a whitish straight oblique line extending from the tip to the middle of the interior border, dilated on the inner side in the middle; space between the fore end of the line and the costa cinereous, including the white costal points. Length of the body 3½ lines; of the wings 8 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

HYPENA ÆGONALIS.

Fœm. *Obscure fusca; alæ anticæ sat angustæ, non falcatæ, lineis nigris, basali distincta, interiore valde angulata strigam*

emittente, exteriore valde obliqua vix arcuata, submarginali denticulata, indistincta costam versus albido marginata, margine exteriore valde obliquo, reniformi e gutta elevata alba.

Female. Dark cinereous-brown, brownish cinereous beneath. Fore wings rather narrow, not falcate; lines black; basal line distinct; interior line forming a deep outward angle, whence a black streak proceeds to the exterior line; the latter very oblique, hardly curved; submarginal line denticulated, irregular, indistinct, except towards the costa, where it has a whitish outer border; exterior border convex, very oblique; reniform mark forming a tumid white dot; under side with a single brown line, like that of the hind wings, which have no lines above. Length of the body 5 lines; of the wings 13 lines.

a. South Africa. Presented by Dr. A. Smith.

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HYPENA ACMONALIS.

Mas. *Cinereo-fusca; palpi late fimbriati, articulo 2o porrecto; antennæ dense pubescentes; pedes sat validi; alæ lineis fuscis angulosis indistinctis, submarginali cinerea; anticæ non falcatæ, reniformi parva ferruginea.*

Male. Cinereous-brown, more cinereous beneath. Palpi broadly fringed; second joint porrect. Antennæ thickly pubescent. Abdomen not extending beyond the hind wings. Legs rather stout. Wings moderately broad; lines brown, zigzag, not distinct; submarginal line cinereous; marginal lunules dark brown; under side with the lines less distinct. Fore wings not falcate; reniform mark small, ferruginous. Length of the body 3½ lines; of the wings 9 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

HYPENA TELAMONALIS.

Mas. *Obscure fusca; palpi porrecti, non angulati; articulus 2us late fimbriatus; 3us apice albidus, 2i dimidio brevior; alæ breviusculæ; anticæ non falcatæ, lineis interiore et exteriore pallidis nigricante marginatis, hac perobliqua valde flexa, illa undulata, linea submarginali e punctis albidis nigro notatis, orbiculari nigra punctiformi.*

Male. Brown, cinereous beneath. Palpi porrect, a little longer than the breadth of the head; second joint broadly fringed; third pubescent, whitish at the tip, less than half the length of the second, with which it does not form an angle. Antennæ with tufts of very minute setæ. Abdomen brownish cinereous, compressed at the tip, not extending beyond the hind wings. Wings rather short. Fore wings not falcate; interior and exterior lines pale, with blackish borders; the former undulating; the latter very oblique, much bent towards the costa; submarginal line indicated by whitish black-marked points; marginal line dark brown; orbicular mark black, punctiform. Hind wings without lines. Length of the body 5½ lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Hypena incongrualis.

Fœm. *Testacea; palpi longi, porrecti, angulati, articulo 2o fimbriato; 3o brevi; thorax rufo subconspersus; alæ anticæ rufo punctatæ, lineis quatuor denticulatis rufis, punctis submarginalibus et marginalibus liturisque costalibus nigris, reniformi e gutta punctisque duobus nigris; posticæ fuscæ aut cinereæ fusco marginatæ.*

Female. Testaceous. Palpi long, porrect; second joint rather broadly fringed above; third slightly fringed, forming an obtuse angle with the second, and little more than one-fourth of its length. Thorax slightly speckled with red. Abdomen speckled with brown. Fore wings minutely speckled with red, with four red denticulated lines; submarginal and marginal points black; some black elongated marks along the costa; reniform mark indicated by a black dot and two black points. Hind wings brown, mostly testaceous along the interior border.

Var. β. Fore wings with the reniform mark and the marginal dots paler, indistinct. Hind wings pale cinereous, with brown borders. Length of the body 4—4½ lines; of the wings 10—11 lines.

Ceylon. In Mr. Layard's collection.

Hypena detersalis.

Mas. *Testaceo-cinerea; palpi ascendentes, non longi; articulus 2us fimbriatus; 3us gracillimus, nigro fasciatus, 2o brevior; alæ cervino ex parte subtinctæ, lineis pallidis fusco ex parte*

marginatis, interiore recta obliqua, exteriore undulata, submarginali denticulata nigro punctata; anticæ reniformi magna pallido marginata.

Male. Testaceous-cinereous. Palpi ascending, not long; second joint fringed above; third very slender, with a black band near the tip, shorter than the second, with which it hardly forms an angle. Wings partly and slightly tinged with fawn-colour; lines pale, partly bordered with brown; interior line straight, oblique; exterior line undulating; submarginal line denticulated, accompanied by some black points; marginal points black. Fore wings with a large pale-bordered reniform mark. Length of the body 3 lines; of the wings 7 lines.

Ceylon. In Mr. Layard's collection.

HYPENA? RUBRIPUNCTALIS.

Fœm. *Cervina, rufo conspersa; palpi ascendentes, arcuati; articulus 2us extus fusco bifasciatus, intus albidus, nigricante fasciatus, 2o vix brevior; abdomen rufo fasciatum; alæ lineis denticulatis ochraceis, puncto discali punctisque submarginalibus nigris; anticæ subfalcatæ, puncto basali punctisque costalibus nigris, subtus rufescentes.*

Female. Fawn-colour, whitish yellow beneath. Palpi ascending, slightly curved; second joint with two oblique brown bands on the outer side, whitish on the inner side; third whitish, linear, with blackish bands, acute at the tip, nearly as long as the second. Frontal tuft acute. Thorax with bright red speckles. Abdomen with red bands. Wings with minute red speckles, and with ochraceous denticulated lines; exterior lines composed of red speckles; a black point in each disk and a row of submarginal black points; marginal festoon bright red. Fore wings subfalcate, with a black basal point and with black points along the costa; exterior border not oblique, except towards the interior angle; under side reddish. Hind wings with two undulating red lines beneath. Length of the body 4—5 lines; of the wings 8—10 lines.

This species should probably be removed from *Hypena*, and perhaps from the *Hypenidæ*.

Ceylon. In Mr. Layard's collection.

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HYPENA ABZINALIS.

a. Venezuela. From Mr. Dyson's collection.

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HYPENA? SYMETHUSALIS.

Mas. *Cinereo-fusca; palpi subangulati, non longi; articulus 2us porrectus, vix arcuatus, supra fimbriatus; 3us subnudus, 2i dimidio non longior; alæ lineis fuscis denticulatis, submarginali pallide cinerea; anticæ vix falcatæ, orbiculari et reniformi pallide ferrugineis, hac elliptica, illa rotunda.*

Male. Cinereous-brown. Abdomen, hind wings and under side cinereous, speckled with brown. Palpi not long; second joint porrect, fringed above, hardly curved; third nearly bare, about half the length of the second, with which it forms an obtuse angle. Antennæ very minutely setose. Abdomen not extending beyond the hind wings. Wings moderately broad; lines brown, denticulated, distinct also beneath; submarginal line pale cinereous; marginal lunules black. Fore wings very slightly falcate; orbicular and reniform marks pale ferruginous; the former round; the latter elliptical, not excavated. Length of the body 4½ lines; of the wings 11 lines.

This species, in the markings of the wings, resembles the *Herminidæ*, but has the frontal tuft like that of *Hypena*.

a. ——— ?

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HYAMIA PERDITALIS.

Fœm. *Pallide cinerea; palpi oblique ascendentes; articulus 3us longi-fusiformis, basi albidus, 2i dimidio valde longior; alæ anticæ subfalcatæ, margine exteriore subangulato, lineis basali et interiore pallide fuscis indistinctis valde denticulatis, exteriore nigra lata valde obliqua costam versus attenuata pallide fusca valde reflexa, submarginali pallida subundulata, orbiculari et reniformi e guttis duabus nigris.*

Female. Pale cinereous; under side with a slight testaceous tinge. Palpi obliquely ascending; third joint elongate-fusiform,

whitish at the base, much more than half the length of the second. Fore wings subfalcate, slightly angular in the middle of the exterior border; basal and interior lines pale brown, indistinct, much denticulated; exterior line black, broad, very oblique, pale brown, attenuated, and much reflexed towards the costa; submarginal line pale, slightly undulating, accompanied by some blackish marks; marginal lunules blackish; orbicular and reniform marks indicated by two black dots. Hind wings with the exterior line less marked than in the fore wings; submarginal line forming a rather broad whitish band, which is interlined and outwardly bordered with brown; under side with a blackish discal point. Length of the body 4½ lines; of the wings 11 lines.

a. ——— ?

Page 74.

HORMISA? ORCIFERALIS.

Mas. *Cinereo-nigra; palpi longi, porrecti, subfimbriati, subangulati; articulus 3us lanceolatus, breviusculus, apice albidus; antennæ breviusculæ, late pectinatæ; alæ sat angustæ; anticæ linea submarginali e punctis albidis; posticæ cinereæ.*

Male. Cinereous-black. Abdomen, hind wings and under side cinereous. Palpi long, porrect, slightly fringed; third joint lanceolate, whitish at the tip, little more than one-third of the length of the second, with which it forms a very obtuse angle. Antennæ rather short and broadly pectinated. Abdomen extending a little beyond the hind wings. Wings rather narrow. Fore wings rectangular at the tips, with the submarginal line forming some whitish points. Hind wings with minute black marginal lunules. Length of the body 5 lines; of the wings 11 lines.

a. United States. Presented by E. Doubleday, Esq.

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GESONIA SECUNDALIS.

Mas.—*Cervina; palpi subascendentes, extus fuscescentes, articulo 3o brevi; antennæ setis pubescentibus; alæ anticæ lineis fuscescentibus diffusis valde indistinctis, exteriore undulata, submarginali denticulata, orbiculari et reniformi e punctis duobus nigricantibus.* Fœm.—*Antennæ simplices.*

Male. Pale fawn-colour. Abdomen, hind wings and under side paler. Palpi slightly ascending, brownish on the outer side; third joint short. Antennæ with long pubescent bristles. Fore wings with brownish diffuse very indistinct lines; exterior line undulating, accompanied by some brown marks; submarginal line denticulated; orbicular and reniform marks indicated by two blackish points; marginal points blackish, like those of the hind wings, in which the two exterior lines are visible. *Var.* β.—Interior and middle lines accompanied by some brown marks. *Female.*—Antennæ simple. Fore wings occasionally with some black marks by the exterior line. Length of the body 4 lines; of the wings 10 lines.

Ceylon. In Mr. Layard's collection.

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CYCLOPTERYX PATRICIALIS.

a. Egu. From Mr. Bates' collection.

Page 93.

RIVULA PROPINQUALIS.

b. United States. Presented by E. Doubleday, Esq.

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HERMINIA METONALIS.

Mas. *Pallide testaceo-cinerea; palpi porrecti, longissimi, angulati; articulus 2us subfimbriatus; 3us gracillimus, 2i dimidio brevior; antennæ late pectinatæ; alæ non latæ; anticæ apice subrotundatæ, lineis denticulatis subobscurioribus fere obsoletis; posticæ albido-cinereæ, lineis subobsoletis.*

Male. Pale testaceous-cinereous. Palpi porrect, very long; second joint slightly fringed; third very slender, almost bare, less than half the length of the second, with which it forms an angle. Antennæ broadly pectinated; branches pubescent. Wings not broad, with a brown marginal line. Fore wings slightly rounded at the tips; lines denticulated, a little darker than the ground-colour, nearly obsolete. Hind wings whitish cinereous, with the lines almost obsolete. Length of the body 3½ lines; of the wings 10 lines.

This species belongs to the sixth European division of *Herminia*.

a, *b*. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

HERMINIA BIFERALIS.

Mas. *Fusca; palpi ascendentes, angulati; articulus 2us robustus, arcuatus; 3us lanceolatus, gracilis, 2i dimidio brevior; alæ latiusculæ; anticæ lineis nigricantibus denticulatis, submarginali cinerea, reniformi e punctis duobus albis.*

Male. Brown, cinereous-brown beneath. Palpi stout, with short hairs, rising high above the vertex; second joint curved; third lanceolate, much more slender and less than half the length of the second, with which it forms an angle. Antennæ with pubescent setæ. Wings rather broad. Fore wings rectangular at the tips; lines blackish, denticulated; submarginal line cinereous; marginal lunules minute, blackish; reniform mark indicated by two white points. Length of the body 6 lines; of the wings 13 lines.

a. United States. Presented by E. Doubleday, Esq.

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HORMISA PHOLAUSALIS.

Mas. *Albido-testacea; palpi longi, fimbriati, ascendentes, extus porrecti; articulus 3us 2o valde brevior; alæ longæ, non latæ; anticæ subfalcatæ, valde acutæ, fusco subconspersæ, linea recta perobliqua fuscescente, orbiculari et reniformi e punctis duobus nigricantibus.*

Male. Whitish testaceous. Palpi long, obliquely ascending near the base, porrect from thence to the tips, moderately fringed; third joint much shorter than the second. Abdomen not extending beyond the hind wings. Wings long, not broad. Fore wings subfalcate, very acute, minutely speckled with brown; a brownish straight very oblique line extending from near the tip of the costa towards the middle of the interior border, on approaching which it is obsolete; marginal points black; orbicular and reniform marks blackish, punctiform. Hind wings white. Length of the body 5 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

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HERMINIA HELESUSALIS.

Mas. *Albido-testacea; palpi oblique ascendentes, non longi, vix arcuati; articulus 3us 2i dimidio non longior; abdomen subtus rufescens; alæ nigro subconspersæ, subtus apud costam rufescentes; anticæ margine exteriore sat obliquo, lineis exteriore et submarginali nigricantibus, illa perobliqua, orbiculari nigricante punctiformi, reniformi e punctis duobus nigricantibus; posticæ flavescente-albæ.*

Male. Whitish testaceous. Palpi obliquely ascending, not long, rising above the head, hardly curved, slightly pubescent; third joint lanceolate, about half the length of the second. Antennæ minutely setose. Abdomen compressed at the tip, not extending beyond the hind wings, with a slight reddish tinge beneath. Wings not broad, slightly and very minutely speckled with black, with a reddish tinge about the costa on the under side; marginal points black. Fore wings rather oblique along the exterior border; exterior and submarginal lines blackish; the former very oblique, obsolete towards the interior border; the latter nearly parallel to the exterior border; orbicular mark blackish, punctiform, having behind it nearer the base another blackish point; reniform indicated by two blackish points. Hind wings yellowish white. Length of the body 4½ lines; of the wings 11 lines.

a. South Africa. Presented by Dr. A. Smith.

HERMINIA? NIGRIFRONTALIS.

Fœm. *Subferrugineo-cinerea; caput nigrum; palpi oblique ascendentes; articulus 2us late fimbriatus; 3us gracilis, linearis, subarcuatus, 2o valde brevior; alæ linea exteriore nigra recta valde obliqua extus fusco late marginata antice obsoleta, submarginali e guttis nigris, striga apicali nigra arcuata, orbiculari et reniformi e punctis duobus nigris, puncto basali nigro.*

Female. Cinereous, with a slight ferruginous tinge. Head, palpi and fore part of the thorax black. Palpi obliquely ascending; second joint broadly fringed; third slender, linear, slightly curved, much shorter than the second. Wings with a black straight very oblique exterior line, which is shaded with brown on the outer side, and is obsolete on the fore half of the fore wings; submarginal line

represented by some black dots, and accompanied towards the costa by a black curved streak; orbicular and reniform marks represented by two black points; a black basal point. Length of the body 5 lines; of the wings 14 lines.

a. South Africa. Presented by Dr. A. Smith.

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HERMINIA TIMONALIS.

Mas. *Cervina; palpi longi, reversi; articulus 2us subarcuatus; 3us rectus. lanceolatus, 2i dimidio longior; antennæ setosæ, ante medium nodosæ, extus arcuatæ; pedes anteriores dense fasciculati; alæ linea submarginali obliqua recta albida intus fusco marginata; anticæ lineis nigricantibus undulatis, reniformi nigricante; posticæ macula discali lineaque exteriore fuscis.*

Male. Fawn-colour. Abdomen, hind wings and under side cinereous. Palpi long, reverted over the head and fore part of the thorax, slightly fringed; second joint slightly curved; third straight, lanceolate, rather more than half the length of the second, with which it forms an angle. Antennæ setose, nodose before the middle, curved from thence to the tips. Anterior legs densely tufted about the knees. Wings with a whitish straight oblique submarginal line, which is diffusedly bordered with brown on the inner side; marginal lunules brown. Fore wings with the basal, interior and exterior lines blackish, undulating; reniform mark represented by a blackish spot. Hind wings with a brown discal mark and an exterior brown line. Length of the body 6 lines; of the wings 13 lines.

Ceylon. In Mr. Layard's collection.

HERMINIA DIFFUSALIS.

Mas. *Cervina; palpi longi, reversi; articulus 2us valde arcuatus; 3us lanceolatus, rectus, 2o brevior; antennæ setosæ; abdomen alas posticas paullo superans; tibiæ anticæ valde dilatatæ; alæ anticæ lineis fuscis denticulatis, submarginali intus diffusa, fascia media recta fusca, reniformi fusca angusta pallido marginata; posticæ fuscescente-cinereæ, lineis tribus fuscis.*

Male. Fawn-colour, more cinereous beneath. Palpi long, reverted over the head and fore part of the thorax; second joint pubescent, much curved; third lanceolate, straight, shorter than the second. Antennæ beset with curved setæ. Abdomen slightly compressed at the tip, extending a little beyond the hind wings. Fore tibiæ much dilated. Fore wings with the lines brown, denticulated; a brown straight middle band; submarginal line diffuse on the inner side; marginal points black; reniform mark brown, narrow, pale-bordered. Hind wings brownish cinereous, with three brown lines and brown marginal lunules. Length of the body 3½ lines; of the wings 9 lines.

Ceylon. In Mr. Layard's collection.

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HERMINIA PHINEUSALIS.

a. Sarawak, Borneo. From Mr. Wallace's collection.

Page 116.

HERMINIA? APIDANUSALIS.

Fœm. *Ferrugineo-fusca; palpi longi, graciles, pubescentes, reflexi; articulus 2us arcuatus; 3us subarcuatus, 2o fere longior; alæ longiusculæ, vix denticulatæ, lineis pallidis undulatis denticulatis nitricante marginatis; anticæ acutæ vix falcatæ, reniformi alba parva angusta, lituris subtus submarginalibus nigris.*

Female. Ferruginous-brown, brownish cinereous beneath. Palpi long, slender, pubescent, reflexed over the head; second joint curved; third slightly curved, very slender and acute, full as long as the second. Wings, rather long, moderately broad, hardly denticulated; the usual lines pale, blackish-bordered, denticulated, undulating; marginal lunules blackish, pale-bordered exteriorly. Fore wings with acute, but hardly falcate tips; reniform mark white, small, narrow; under side with some black marks between the fore part of the submarginal line and the exterior border. Length of the body 4½ lines; of the wings 12 lines.

a. North Hindostan. From Mr. James' collection.

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BLEPTINA SURRECTALIS.

Mas et fœm. *Cinereo-fusca; palpi longi, graciles, ascendentes, subnudi; articulus* 2*us valde arcuatus;* 3*us vix arcuatus,* 2*o vix brevior; alæ amplæ; anticæ lineis pallide cinereis subundulatis valde denticulatis, reniformi e striga pallide cinerea; posticæ cinereæ, fasciis duabus obscurioribus diffusis indistinctis.*

Male and female. Cinereous-brown, cinereous beneath. Palpi long, slender, ascending, almost bare, rising high above the head; second joint much curved; third hardly curved, very slender and acute, nearly as long as the second. Wings ample. Fore wings with pale cinereous slightly undulating much denticulated lines; marginal lunules black; reniform mark indicated by a pale cinereous streak. Hind wings cinereous, with two darker indistinct and diffuse bands; under side with a brown discal mark. *Male.*—Antennæ with rather long curved setæ. *Female.*—Antennæ bare. Length of the body 4½—6 lines; of the wings 12—15 lines.

a—f. United States. Presented by E. Doubleday, Esq.
h. Orilla, West Canada. From Mr. Bush's collection.
i. ——— ?

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BLEPTINA CONFUSALIS.

Mas.? *Cinereo-fusca; palpi valde arcuati et reflexi, articulo* 3*o usque ad apicem dense fasciculato; antennæ setosæ; tibiæ anticæ validæ, dense vestitæ; alæ anticæ lineis undulatis indistinctis fuscescentibus, orbiculari albida punctiformi, reniformi nigra lunata.*

Male? Cinereous-brown, cinereous beneath. Palpi much curved and reflexed; third joint densely tufted to its tip. Antennæ with moderately long setæ. Fore tibiæ stout, densely clothed. Fore wings with undulating indistinct brownish lines; marginal points blackish; orbicular mark whitish, punctiform; reniform black, lunate. Hind wings cinereous, with indistinct lines; under side with a distinct blackish discal mark. Length of the body 6 lines; of the wings 15 lines.

a. Venezuela. From Mr. Dyson's collection.

Bleptina hirtipalpis.

Mas. *Fuscescente-cinerea; palpi oblique ascendentes, latissime fimbriati; articulus 3us apice nudus peracutus, 2i dimidio brevior; alæ anticæ subpurpurascentes, fusco conspersæ et extus nebulosæ, lineis interiore et exteriore fuscis denticulatis extus pallido marginatis, linea submarginali nigricante subnebulosa; reniformi nigra oblonga subovata albido conspersa, puncto exteriore elongato nigro.*

Male. Brownish cinereous. Palpi obliquely ascending, very broadly fringed; third joint bare towards the tip, which is very acute, less than half the length of the second. Antennæ minutely setose. Abdomen hardly extending beyond the hind wings. Wings rather broad. Fore wings with a pale purplish tinge, speckled, and on the exterior half partly shaded with brown; interior and exterior lines brown, denticulated, pale-bordered on the outer side; submarginal line partly shaded with black; marginal lunules black, with cinereous outer borders; reniform mark black, oblong, nearly oval, with a whitish-speckled disk; an elongated black point beyond it. Hind wings brownish cinereous; marginal festoon blackish, with a pale outer border. Length of the body 6 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

Bleptina proliferalis.

Mas. *Fusca; palpi oblique ascendentes, subarcuati, non longi; articulus 2us validus, pilosus; 3us lanceolatus, nudus, 2o valde brevior; alæ lineis nigricantibus angustis denticulatis indistinctis, punctis marginalibus nigris albo notatis; anticæ linea submarginali costam versus diffusa, reniformi e striga gutta punctoque albis.*

Male. Brown, cinereous beneath. Palpi obliquely ascending, slightly curved, not long; second joint stout, pilose; third lanceolate, bare, much shorter than the second. Antennæ rather long, minutely setose. Wings moderately broad; lines blackish, slender, denticulated, indistinct; marginal points black, white-marked; a black discal mark on each wing beneath. Fore wings rectangular at the tips; submarginal line somewhat diffuse towards the costa; reniform mark with a white streak, which has on its outer side

a white dot and a white point; under side with a short broad transverse costal subapical brownish streak. Length of the body 5 lines of the wings 13 lines.

Brazil. In Mr. Saunders' collection.

BLEPTINA HASTIFERALIS.

Fœm. *Obscure fusca; palpi longi, ascendentes; articulus 2us arcuatus; 3us rectus, gracillimus, acutus, 2o fere longior; alæ longiusculæ, sat angustæ, subdenticulatæ, linea media albida obliqua vix denticulata, submarginali albida valde indistincta; anticæ subfalcatæ, margine exteriore subflexo.*

Female. Dark brown, cinereous-brown beneath. Palpi long, rising very high above the head; second joint curved; third straight, very slender, acute, full as long as the second. Wings rather long and narrow, slightly denticulated; middle line whitish, obliqne, hardly denticulated; submarginal line whitish, very indistinct; marginal lunules blackish, with cinereous borders. Fore wings subfalcate, with the exterior border very slightly bent. Length of the body 4½ lines; of the wings 13 lines.

a. Venezuela. From Mr. Dyson's collection.

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BLEPTINA THEROALIS.

Fœm. *Cervina; palpi fuscescentes, ascendentes, arcuati; articulus 3us acicularis, basi apiceque albus, 2o valde brevior; tarsi subtus pallide testacei; tibiæ anticæ apice albidæ; alæ longiusculæ; anticæ apud costam albido-testaceæ, margines versus cinerascentes, linea exteriore pallide cinerea undulata indistincta, submarginali albida denticulata, fimbria albido varia, reniformi subobsoleta; posticæ cinereæ.*

Female. Fawn-colour, cinereous beneath. Palpi brownish, curved, ascending above the head; third joint acicular, white at the base and at the tip, much shorter than the second. Tarsi pale testaceous beneath; fore tibiæ whitish at the tips. Wings rather long. Fore wings whitish testaceous along the costa, somewhat cinereous hindward and about the exterior border; exterior line pale cinereous, undulating, indistinct; submarginal line whitish, denticulated; marginal points brown; exterior border slightly

convex, moderately oblique; fringe mostly whitish; reniform mark almost obsolete. Hind wings cinereous. Length of the body 4½ lines; of the wings 12 lines.

a. Venezuela. From Mr. Dyson's collection.

Bleptina Nisosalis.

Mas. *Ferruginea, subtus ferrugineo-cinerascens; palpi longiusculi, oblique ascendentes; articulus 3us gracillimus, valde acutus, subfimbriatus, 3o valde brevior; alæ sat angustæ; anticæ linea interiore fusca subrecta bene determinata, lineis media et exteriore fuscis angustis valde undulatis, hac duplicata, spatio marginali nigricante lineam submarginalem pallidam subundulatam includente; posticæ cinereæ, margine lato fuscescente.*

Male. Ferruginous. Abdomen, hind wings and under side cinereous; the latter with a ferruginous tinge. Palpi rather long, obliquely ascending; third joint very slender and acute, slightly fringed, much shorter than the second. Antennæ minutely setose. Wings rather narrow. Fore wings with the interior line brown, distinct, nearly straight and upright; middle and exterior lines brown, slender, very undulating, the latter double; space beyond it blackish, including the pale slightly undulating submarginal line; marginal points black. Hind wings cinereous, with broad brownish borders.

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Megatomis Leosalis.

a. Venezuela. From Mr. Dyson's collection.

Megatomis Otisalis.

Mas. *Ferrugineo-fusca, subtus testacea; palpi thoracem posticum fere attingentes; articulus 1us longiusculus; 2us arcuatus; 3us fimbriatus, 2o brevior; alæ sat angustæ, fascia obliqua nigricante-fusca intus albido lineata costam versus flexa, linea marginali lutea; anticæ striga costali subapicali testacea, striga apud marginis exterioris angulum nigricante, ocello apicali, orbiculari et reniformi albis, hac angusta; posticæ denticulatæ, macula interiore oblonga nigra.*

Male. Ferruginous-brown, mostly testaceous beneath. Palpi reverted nearly to the hind border of the thorax; first joint rather long; second curved; third fringed, shorter than the second. Antennæ nodose and tufted in the middle, convoluted from thence to the tips. Wings rather narrow; a blackish brown oblique band, which has a whitish line along most of the inner side, and is bent outward towards the costa of the fore wings; marginal lunules brown, slightly bordered with whitish; marginal line luteous. Fore wings with a testaceous streak along the costa towards its tip, and with a short blackish streak extending to the angle of the exterior border; a black glaucous-bordered apical ocellus; orbicular and reniform marks white; the latter narrow. Hind wings denticulated, with an oblong black spot by the inner side of the band. Wings beneath with a black discal mark on each. Length of the body 4 lines; of the wings 12 lines.

a. Venezuela. From Mr. Dyson's collection.

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LOCASTRA PHERECIUSALIS.

a. Silhet. From the Rev. J. Stainforth's collection.

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BERTULA CONTIGENS.

Mas. *Cinereo-alba; palpi longi, validi, fuscescentes, ascendentes, articulis arcte connexis; antennæ dimidio basali setoso; thorax antice fuscus; abdomen testaceum, alas posticas superans; alæ anticæ nigro conspersæ, lineis nigris, interiore subrecta antice abbreviata, exteriore valde flexa, submarginali valde diffusa et indistincta, orbiculari et reniformi nigris; posticæ semihyalinæ.*

Male. Cinereous-white. Palpi long, stout, brownish, slightly inclined backward, rising high above the fore part of the thorax; second and third joints closely conjoined, so as apparently to form one joint. Antennæ setose for half the length from the base. Thorax brown and flecked with black in front. Abdomen testaceous, with some black flecks on each side, extending rather beyond the hind wings. Fore wings speckled with black; lines black; interior line nearly straight and upright, abbreviated in front; exterior line composed of black marks, much bent outward; submarginal

line very diffuse and indistinct; marginal dots blackish; orbicular and reniform marks indicated by two black dots, the latter narrow. Hind wings semihyaline, with brown streaks along the veins towards the exterior border. Length of the body 5 lines; of the wings 11 lines.

Ceylon. In Mr. Layard's collection.

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BERTULA INSIGNALIS.

Mas. *Fusca; palpi longissimi, arcuati, reflexi, articulis 1o et 2o pilosis, 3o longissimo testaceo longissime fasciculato; antennæ subpubescentes, setis longiusculis; tibiæ anticæ densissime pilosæ; alæ sat angustæ; anticæ pallide fuscæ nigricante subnebulosæ, lineis pallidis angulosis nigricante submarginatis, spatio marginali nigro, fimbria bis interlineata, margine exteriore angulato, orbiculari et reniformi nigris, hac albo divisa, illa elongata.*

Male. Brown. Abdomen and under side brownish cinereous. Palpi very long, curved, reflexed, rising high above the head; first and second joints pilose, moderately long; third very long, testaceous and tufted with very long testaceous hairs. Antennæ minutely pubescent, furnished with rather long setæ. Abdomen extending a little beyond the hind wings. Fore tibiæ most densely clothed. Wings rather narrow. Fore wings pale brown, partly shaded with blackish; lines pale, zigzag, irregular, partly blackish-bordered; space between the submarginal line and the border mostly black; fringe doubly interlined; exterior border distinctly angular, its hind part extremely oblique; orbicular and reniform black; the former elongate; the latter interrupted by an irregular white line. Hind wings cinereous, with two brown lines, brownish and with a pale line towards the exterior border. Length of the body 4½ lines; of the wings 10 lines.

a. ——— ?

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ADRAPSA ABLUALIS.

b. Hindostan. From Archdeacon Clerk's collection.

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BOCANA PHILEMONALIS.

Mas. *Albido-cinerea; palpi albidi, longi, ascendentes, arcuati, subnudi; articulus 3us 2o brevior; antennæ setosæ, vix serratæ; alæ fusco conspersæ, extus fuscæ, lineis exteriore et submarginalibus albis subdenticulatis, fascia intermedia cervina, margine exteriore subflexo; anticæ reniformi fusca informi.*

Male. Whitish cinereous, whitish beneath. Palpi whitish, long, ascending, almost bare, rising high above the head; third joint acute at the tip, shorter than the second. Antennæ very minutely serrated, with long curved setæ. Wings speckled with brown, mostly brown towards the exterior border; exterior and submarginal lines white, slightly denticulated, having a fawn-coloured band between them; the submarginal line much broader on the under side; exterior border slightly bent in the middle; marginal festoon brown. Fore wings with the reniform mark brown, irregular. Length of the body 4 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

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BOCANA ATYMNUSALIS.

Mas. *Fuscescente-cinerea; palpi longi, ascendentes; articulis 2us valde arcuatus; 3us gracilis, 2i dimidio longior, fasciculo subapicali nigro; abdominis segmenta albido marginata; alæ anticæ subpurpurascentes, fusco conspersæ, lineis pallide cinereis, interiore subrecta, exteriore undulata, submarginali undulata et denticulata, linea media tenui fusca, reniformi atra; posticæ pallide cinereæ, extus fuscescentes.*

Male. Brownish-cinereous. Palpi long, rising high above the head; second joint merely pubescent, much curved; third joint slender, lanceolate, with a black subapical tuft, more than half the length of the second. Antennæ long, distinctly setose. Abdomen extending a little beyond the hind wings; hind borders of the segments whitish. Fore wings with a purplish tinge, speckled with brown; lines pale cinereous; interior line nearly straight, very remote from the exterior one, which is undulating; submarginal line undulating and denticulated; a slight brown middle line; marginal points black; reniform mark deep black. Hind wings pale cinereous-brownish towards the exterior border, where the

marginal lunules are brown. Length of the body 2½ lines; of the wings 8 lines.

a. St. Domingo. From Mr. Tweedie's collection.

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LIBISOSA TELAMUSALIS.

Mas. *Cervina; palpi reversi; articulus 2us valde arcuatus; 3us rectus, lanceolatus, 2i dimidio longior; abdomen alas posticas perpaullo superans; alæ anticæ apice subrotundatæ, lineis interiore et exteriore pallide fuscescentibus subundulatis valde indistinctis, linea submarginali albida recta obliqua; posticæ albidæ.*

Male. Fawn-colour, pale cinereous beneath. Palpi pubescent, reverted over the head to the fore border of the thorax; second joint very much curved; third straight, lanceolate, a little more than half the length of the second. Antennæ hardly setose. Abdomen compressed at the tip, extending very little beyond the hind wings. Wings moderately broad; a brown testaceous-bordered marginal line. Fore wings somewhat rounded at the tips; interior and exterior lines pale brownish, slightly undulating, very indistinct; submarginal line whitish, straight, oblique. Hind wings whitish; submarginal line paler, indistinct. Length of the body 5 lines; of the wings 11 lines.

This species much resembles *Sophronia Cæneusalis* and *S. capsalis*, which two species perhaps should be transferred to the genus *Libisosa*.

a. Natal. From Dr. Krauss' collection.

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ORTHAGA ETADELTALIS.

a, *b*. Sarawak, Borneo. From Mr. Wallace's collection.

Var.? Mas et fem. *Cinereo-rufescens; alæ anticæ fascia interiore lata fusca extus flavescente marginata, puncto basali nigro, linea submarginali flavescente undulata denticulata fusco ex parte marginata, plaga apicali fusca; posticæ cinereæ, extus fuscescentes linea pallida.*

Var.? *Male and female*. Cinereous-reddish. Abdomen, hind wings and under side cinereous. Fore wings with a black point by the base, near which there is a broad brown band, the latter

bounded on the outer side by a straight oblique yellowish line; submarginal line yellowish, undulating, denticulated, partly bordered with brown; a brown patch occupying the space between its fore part and the tip of the wing; marginal lunules blackish. Hind wings cinereous, brownish, and with an indistinct pale line towards the exterior border; under side with a brown line. Length of the body 4½—6 lines; of the wings 10—13 lines.

Ceylon. In Mr. Layard's collection.

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GIZAMA CLEOBISALIS.

Mas.—*Fusca; palpi reflexi, rectangulati, articulo 1o longiusculo, 2o erecto, 3o lanceolato; antennæ subsetosæ, vix serratæ; alæ anticæ apice subrotundatæ, lineis pallidis undulatis denticulatis indistinctis, reniformi nigricante; posticæ fuscescente-cinereæ, lineis subtus duabus fuscis litura que discali obscure fusca.* Fœm.—*Palpi vix angulati; alæ anticæ dimidio interiore subcervino.*

Male.—Brown, brownish cinereous beneath. Palpi clothed with short hairs; first joint rather long; second vertical, hardly curved; third lanceolate, bare, reflexed over the vertex and forming a right angle with the second. Antennæ very minutely serrated and with short setæ. Abdomen cinereous, exteuding a little beyond the hind wings; apical tuft rather long. Wings moderately broad. Fore wings slightly rounded at the tips; lines pale, undulating, denticulated, indistinct; marginal points black; reniform mark blackish. Hind wings brownish cinereous; under side with a dark brown discal mark, and with two exterior denticulated brown pale cinereous-bordered lines. *Female.*—Palpi less reflexed; third joint hardly forming an angle with the second. Antennæ bare. Fore wings from the base to the middle mostly dull fawn-colour. Length of the body 5 lines; of the wings 12 lines.

a—*c*. South Africa. Presented by Dr. A. Smith.

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ECNASIA CELÆNOALIS.

Fœm. *Testacea; palpi cinerei, arcuati, ascendentes, subfasciculati; articulus 3us 2o valde brevior, alæ anticæ extus ferrugineæ, costa basali subconvexa, apicali incisuris tribus albo*

punctatis, lineis fuscis, interiore subundulata vix obliqua, media arcuata, exteriore valde flexa, submarginali nigricante denticulata, orbiculari alba, reniformi e punctis duobus nigricantibus; posticæ lituris apud lineam submarginalem trigonis albidis.

Female. Testaceous. Palpi cinereous, curved, ascending, slightly tufted, rising above the vertex; third joint acicular, bare and very slender at the tip, much shorter than the second. Fore wings ferruginous on more than half the exterior surface; costa slightly convex along full half the length from the base, with three notches on the exterior part; these notches with white points; lines brown; interior line slightly undulating, hardly oblique; orbicular mark forming a round white dot; reniform indicated by two blackish points, which are contiguous to the curved middle line; exterior line extremely bent inward towards the costa; submarginal line blackish, denticulated, traversing a subapical whitish diffuse spot. Hind wings partly ferruginous towards the exterior border; exterior line slightly undulating, not curved; submarginal line accompanied by some whitish triangular marks. Length of the body 4 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus GALANDA.

Mas. Corpus sat gracile. Palpi longiusculi, validi, porrecti, pilosi; articuli 1us et 2us longi; 3us brevis, acutus. Antennæ graciles, subsetosæ. Abdomen alas posticas vix superans, apice subcompressum. Pedes sat validi, femoribus posticis fimbriatis, calcaribus longis. Alæ amplæ; anticæ vix falcatæ; costa vix convexa, margine exteriore convexo vix obliquo.

Male. Body rather slender. Palpi stout, porrect, pilose, much longer than the breadth of the head; first and second joints long; third short, acute. Antennæ slender, minutely setose. Abdomen hardly extending beyond the hind wings, slightly compressed at the tip. Legs moderately stout; hind femora fringed; spurs long. Wings ample. Fore wings hardly falcate; costa hardly convex; exterior border convex, hardly oblique; first, second and third inferior veins near together at the base; fourth rather remote.

1. GALANDA HEBRUSALIS.

Mas. *Testacea, fusco conspersa; abdomen fuscum, maculis subtus lateralibus nigris; alæ anticæ lineis nigris, linea interiore angulosa, exteriore subundulata costam versus flexa, submarginali undulata fusco nebulosa, striga lata diffusa fusca marginem exteriorem attingente, puncto basali et orbiculari punctiformi nigris, reniformi pallide testacea angulum nigrum includente.*

Male. Testaceous, thickly speckled with brown. Abdomen brown, testaceous at the tip; under side with black dots along each side. Fore wings with black lines; interior line zigzag; exterior line slightly undulating, bent inward towards the costa; submarginal line undulating, shaded with brown; a broad diffuse brown streak extending from the reniform mark to the exterior border; marginal points black; a black basal point; orbicular mark black, punctiform; reniform pale testaceous, not speckled, including an angular black point. Hind wings blackish cinereous above; under side with a black discal mark and two exterior brown lines. Length of the body 5 lines; of the wings 13 lines.

Brazil. In Mr. Saunders' collection.

Genus ECREGMA.

Fœm. Corpus gracile. Palpi porrecti, pubescentes, non longi; articulus 2us subarcuatus; 3us linearis, apice conicus, 2i dimidio vix longior. Abdomen alas posticas vix superans. Pedes graciles, subnudi, calcaribus longis. Alæ longiusculæ, vix latæ; anticæ acutæ, margine exteriore convexo obliquo.

Female. Body slender. Head with a frontal tuft. Palpi porrect, pubescent, hardly longer than the breadth of the head; second joint slightly curved downward; third linear, conical at the tip, hardly more than half the length of the second. Abdomen hardly extending beyond the hind wings. Legs slender, nearly bare; spurs long. Wings rather long, hardly broad. Fore wings acute; exterior border convex, moderately oblique.

1. Ecregma Damoetesalis.

Fœm. *Pallide cinereo-cervina; alæ anticæ lineis interiore et exteriore obliquis rufescentibus pallido marginatis, hac subundulata, illa recta, linea submarginali e strigulis cuneatis nigris albo notatis, reniformi magna nigra subexcavata.*

Female. Pale cinereous-fawn colour. Fore wings with the interior and exterior lines oblique, reddish, pale-bordered, contiguous in front to two black costal spots; the former straight; the latter slightly undulating; submarginal line indicated by some black white-marked cuneiform streaks; marginal lunules black; reniform mark large, black, slightly excavated. Hind wings with some traces of the exterior and submarginal lines. Length of the body 4½ lines; of the wings 11 lines.

a. Venezuela. From Mr. Dyson's collection.

Genus LAMIDA.

Mas. Corpus robustum. Palpi longi, validi, erecti; articulus 1us mediocris; 2us et 3us arcte conjuncti, clavam longifusiformem fingentes. Palpi maxillares longi, gracillimi, fasciculis apicalibus longis. Antennæ subpubescentes. Abdomen alas posticas paullo superans. Pedes validi, tibiis pilosis, calcaribus longis. Alæ sat angustæ; anticæ apice subrotundatæ, margine exteriore subconvexo valde obliquo.

Male. Body stout. Palpi long, thick, vertical, rising very high above the head; first joint moderately long; second and third closely anchylosed, forming an elongate-fusiform mass. Maxillary palpi long, very slender, ending in two long fan-shaped tufts of hairs. Antennæ minutely pubescent. Abdomen extending a little beyond the hind wings. Legs stout; tibiæ pilose; spurs long; Wings rather narrow. Fore wings slightly rounded at the tips; exterior border slightly convex, very oblique; fringe broad.

1. Lamida moncusalis.

Mas. *Fuscescente-cinerea, subtus albido-cinerea; palpi maxillares fasciculis testaceis; thorax nigro subconspersus, maculis duabus anticis fuscis; abdomen e maculis fuscescentibus*

bivittatum; alæ anticæ nigro conspersæ, lineis nigris denticulatis; fimbria guttis fuscescentibus; posticæ cinereæ, extus fuscescentes.

Male. Brownish cinereous, mostly whitish cinereous beneath. Tufts of the maxillary palpi bright testaceous. Thorax slightly speckled with black; two brown spots in front. Abdomen with two rows of brownish dorsal spots. Fore wings speckled with black; the usual lines black, denticulated, irregular; marginal points black; fringe with brownish dots at the base. Hind wings cinereous, brownish towards the exterior border. Length of the body 5½ lines; of the wings 11 lines.

Hindostan. In Mr. Saunders' collection.

Printed by E. Newman, 9, Devonshire Street, Bishopsgate.

LIST

OF THE

SPECIMENS

OF

LEPIDOPTEROUS INSECTS

IN

THE COLLECTION

OF THE

BRITISH MUSEUM

BY

FRANCIS WALKER, F.L.S., &c.

PART XVII.—PYRALIDES.

PRINTED BY ORDER OF THE TRUSTEES.
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PREFACE.

THE object of the present Catalogue is to give a complete list of all the genera and species of Pyralides known to exist in the different collections. The letters *a*, *b*, *c*, &c., after the species, denote the specimens now contained in the British Museum, followed by the *habitat* and the mode in which each of them was obtained, and the absence of these *letters* indicates the species which are desiderata, and therefore desirable to be procured for the collection.

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British Museum,
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CATALOGUE

OF

LEPIDOPTERA HETEROCERA.

FOURTH SERIES.

Tribe 9. PYRALITES.

Corpus gracile. Proboscis brevis. Palpi labiales sæpissime porrecti, nonnunquam rostriformes, nunquam reflexi. Palpi maxillares sæpissime distincti. Antennæ graciles, filiformes aut moniliformes, sæpe longi, nonnunquam subsetosæ. Thorax brevis, globosus. Abdomen longum, læve, squamosum, apice acutum. Pedes longi, graciles, læves, vix unquam villosi; antici coxis femoribusque longis, tibiis brevioribus, tarsis longis; posteriores longissimi. Alæ nitentes, integræ, deflexæ, sæpe iridescentes aut semihyalinæ, lineis interiore et exteriore bene determinatis.

Pyralites, *Guen. Delt. et Pyral.* 97.

Body slender. Proboscis short. Labial palpi alike in both sexes, sometimes rostriform, sometimes of the usual shape and of moderate length, never reflexed on the thorax. Maxillary palpi very frequently distinct. Antennæ slender, filiform or moniliform, often long, sometimes with minute, rarely with ciliated laminæ. Thorax short, globose. Abdomen long, smooth, squamous, acute at the tip, conical in the male. Legs long, slender, smooth, scarcely ever villose. Fore legs with the coxæ and femora of nearly equal length; tibiæ shorter; tarsi long. Posterior legs very long. Wings shining, entire, generally narrow, never elevated in repose, nor wrapped on the body, often iridescent or semihyaline; interior and exterior lines complete, concise.

A. Alæ posticæ vena costali libera nulla.
Sub-tribe 2. PULVERULENTÆ, *Guen.*
B. Alæ posticæ venis costali et subcostali connexis.
A. Alæ posticæ areola venam subcostalem non includente.
Sub-tribe 1. SQUAMOSÆ, *Guen.*
B. Alæ posticæ areola venam subcostalem includente.
a. Alæ dum quietem agunt subextensæ et deflexæ.
Sub-tribe 3. LURIDÆ, *Guen.*
b. Alæ anticæ dum quietem agunt subplanæ, posticas tegentes.
Sub-tribe 4. PLICATÆ, *Guen.*

Sub-tribe 1. SQUAMOSÆ.

Fam. 1. ODONTIDÆ.

Statura mediocris. Conspectus noctuiformis. Corpus robustum. Ocelli distincti. Palpi labiales breves; maxillares bene determinati. Antennæ breviusculæ, pubescentes. Alæ densæ, squamosæ, non nitentes, integræ, rotundatæ, fimbria squamosa plena; anticæ radiatæ, lineis distinctis denticulatis; posticæ non bene determinatæ.

Odontidæ, *Guen. Delt. et Pyral.* 111.

Size moderate. Aspect like the *Noctuites*. Body robust. Ocelli distinct. Labial palpi short. Maxillary palpi distinctly formed. Antennæ rather short, pubescent. Wings thick, squamous, dull, entire, with rounded angles; fringe full, squamous. Fore wings with radiating stripes; lines distinct, denticulated. Hind wings not much developed.

A. Proboscis brevis. - - - - 1. CYNŒDA, *Hübn.*
B. Proboscis longa. - - - - 2. NOCTUELIA, *Guen.*

Genus 1. CYNŒDA.

Corpus gracile. Proboscis brevissima. Palpi porrecti, vix declives, non longi; articulus 3us lanceolatus, 2i dimidio non longior. Antennæ sat validæ, maris pubescentes, fœm. nudæ. Abdomen alas posticas vix superans. Pedes sat graciles, subnudi; calcaria longa. Alæ anticæ apice subrotundatæ, margine exteriore vix obliquo late fimbriato, margine interiore extus subexcavato intus late fimbriato.

Scopula, p., *Schr.*; *Treit.*
Cymœda, p., *Hübn.*. *Verz. Schm.* 346; *Steph.*; *Herr.-Schæff.*
Odontia, *Dup.*; *Guen.*

Body slender. Proboscis very short. Palpi porrect, hardly longer than the breadth of the head; third joint lanceolate, slightly inclined downward, and thus forming a very obtuse angle with the second, of which it is about half the length. Antennæ rather stout, pubescent in the male, bare in the female. Abdomen hardly extending beyond the hind wings. Legs rather slender, almost bare; spurs long. Wings moderately broad. Fore wings slightly rounded at the tips; exterior border hardly oblique, broadly fringed; interior border slightly excavated on the exterior half, broadly fringed on the interior half.

1. CYNŒDA DENTALIS.

Subcervina; alæ anticæ strigis lanceolatis albidis fusco marginatis, strigis marginalibus albidis, fimbria albida fusco strigata; posticæ fusco-cinereæ, linea exteriore obscuriore denticulata indistincta.

Pyralis dentalis, *Wien. Verz.* 120, 14. *Schr. Fn. Boic.* ii. 59, 1706. *Illig. N. Auss.* ii. 10, 14. *Hübn. Pyral.* pl. 4, f. 25. *Haw. Lep. Brit.* 385. *Treit. Schm.* vii. 54, 1.
Noctua fulminans, *Fabr. Ent. Syst.* iii. 2, 104, 311. *Oliv. Enc. Méth.* v. 34.
Phalæna ramalis, *Fabr. Ent. Syst.* iii. 2, 230, 378.
Noctua radiata, *Esp. Schmett.* iv. 374, pl. 126, f. 2, 3.
Cynœda dentalis, *Hübn. Verz. Schm.* 346, 3310. *Steph. Ill. Brit. Haust.* iv. 61, pl. 33, f. 1. *Herr.-Schæff. Eur. Schm.* iv. 15, 21.
Odontia dentalis, *Dup. Hist. Nat. Lép.* 85, pl. 215, f. 1. *Guen. Delt. et Pyral.* 112.

a, *b*. England. From Mr. Stephens' collection.
c—*g*. England. From Mr. Stevens' collection.
h—*n*. England. From Mr. Bouchard's collection.
o, *p*. Europe. From M. Becker's collection.

2. Cynœda? Athalialis.

Mas. *Cinerea, nigro conspersa, fuscescente et rufescente subconspersa; alæ anticæ angulis nonnullis valde acutis albidis, linea exteriore transversa albida, linea marginali nigra, margine exteriore perobliquo; posticæ sordide albidæ, fusco subconspersæ.*

Male. Cinereous, slightly and minutely speckled with black, slightly tinged with brownish and reddish. Fore wings with some whitish lines, which form very acute angles, and are bounded exteriorly by a whitish transverse line, the latter being nearly parallel to the exterior border, and joining the interior border before the middle of the latter; marginal line black; fringe interlined and much speckled with black; exterior border very oblique. Hind wings dingy whitish, minutely speckled with brown; marginal line brown; fringe interlined with brown. Length of the body 3 lines; of the wings 7 lines.

a. Cape. From M. Dregé's collection.

Genus 2. NOCTUELIA.

Corpus robustum. Caput minimum. Frons prominens. Proboscis longa, valida. Palpi brevissimi, arcuati, subascendentes; articulus 2us latissimus, squamosus; 3us brevis, filiformis. Palpi maxillares ascendentes, lineares, acuti, labialibus vix breviores. Antennæ subpubescentes. Thorax crassus. Abdomen conicum, basi latum, alas posticas non superans. Alæ latiusculæ, integræ, densæ, rotundatæ; anticæ margine interiore convexo.

Cynœda, p., *Herr.-Schæff.*
Noctuelia, *Guen. Delt. et Pyral.* 113.

Body stout. Head very small. Front advanced, tumid. Proboscis long, stout, enlarged and covered with two rows of hairs at the base. Labial palpi very short, curved, slightly ascending; second joint very broad, coarsely squamous; third short, filiform. Maxillary palpi almost as long as the labial, ascending, linear, acute at the tips. Antennæ finely pubescent. Thorax large, tumid. Abdomen conical, enlarged at the base, not extending beyond the hind wings. Legs long, stout. Wings rather broad, entire, thick, rounded; fore wings with the interior border convex; hind wings with vivid and well-defined colours.

1. NOCTUELIA SUPERBALIS.

Fusca, subtus lutea; thorax testaceo vittatus; abdomen testaceo fasciatum; alæ anticæ fusco-cinereæ, subincarnatæ, lineis interiore et exteriore nigris remotis, hac denticulata, illa angulosa, fascia submarginali maculaque discali fuscis; posticæ luteo-ochraceæ, basi lato fasciaque marginali denticulata nigris.

Cynœda superba, *Herr.-Schæff. Eur. Schm.* iv. 15, 22, pl. iii. 11. f. 73, 74.

Noctuelia superbalis, *Guen. Delt. et Pyral.* 114, 2.

Balkan Mountains, Turkey.

Sub-tribe 2. PULVERULENTÆ.

Palpi quatuor conspicui; labiales apice deflexi. Antennæ breviusculæ, pubescentes aut pectinatæ. Thorax robustus, elevatus. Abdomen sat crassum. Oviductus fœm. sæpe terebriformis. Pedes longi, sæpissime validi; tibiæ plus minusve pilosæ. Alæ densæ, pulverulentæ, fimbria bene determinata; anticæ apice rotundatæ aut vix acutæ.

Labial and maxillary palpi distinct, the former somewhat parted towards the tips. Antennæ rather short, pubescent or pectinated in the male. Thorax robust, arched. Abdomen rather thick. Oviduct often terebriform. Wings stout, pulverulent; fringe thick. Fore wings rounded or hardly acute at the tips.

A. Proboscis nonnunquàm nulla. Palpi breves, varii. Alæ posticæ venis tribus internis liberis. Mas et fœm. similes. Fam. 1. PYRALIDÆ, *Guen.*

B. Ocelli conspicua. Proboscis distincta. Palpi porrecti, longissimi. Alæ posticæ vena submediana obsoleta. Mas et fœm. dissimiles. - - - Fam. 2. CLEDEOBIDÆ, *Guen.*

Fam 1. PYRALIDÆ.

Frons plana. Ocelli sæpissime obsoleti. Palpi breves, disjuncti, porrecti, aut subascendentes. Palpi maxillares vix conspicui. Antennæ maris pubescentes aut vix pectinatæ. Pedes

validi; tibiæ subpilosæ. Alæ integræ, validæ, rudè squamosæ; fimbria lata, plena.

Pyralidæ, *Guen. Delt. et Pyral.* 116.

Front flat. Ocelli very generally obsolete. Palpi short, parted, porrect or slightly ascending. Maxillary palpi hardly visible. Antennæ of the male pubescent or hardly pectinated. Legs stout; tibiæ slightly pilose. Wings robust, entire, coarsely squamous; fringe broad, full.

A. Alæ posticæ non luteæ.
A. Abdomen alas posticas vix superans.
a. Palpi apice non obtusi.
a. Proboscis conspicua.
i. Palpi ad frontem non applicati.
* Palpi ascendentes. - - 1. PYRALIS, *Linn.*
** Palpi non ascendentes. 4. STEMMATOPHORA, *Guen.*
ii. Palpi ad frontem applicati.
* Palporum articulus 3us longus. 2. GLOSSINA, *Guen.*
** Palporum articulus 3us minimus.
b. Proboscis non conspicua. - - 10. DOTHTHA, *Walk.*
i. Palpi maxillares non brevissimi.
* Palpi labiales validi. - - 3. AGLOSSA, *Latr.*
** Palpi labiales graciles. - - 5. HYPOTIA, *Zell.*
ii. Palpi maxillares brevissimi. 6. HYPSOPYGIA, *Hübn.*
B. Palpi apice obtusi. - - - 7. CAROHA, *Walk.*
B. Abdomen alas posticas dimidio superans. 9. LABANDA, *Walk.*
B. Alæ posticæ luteæ. 8. CARDAMYLA, *Walk.*

Genus 1. PYRALIS.

Corpus gracile. Proboscis brevis. Palpi pubescentes, oblique ascendentes, non longi; articulus 2us subarcuatus; 3us linearis, apice conicus, 2i dimidio non longior. Antennæ validæ, maris pubescentes, fœm. nudæ. Abdomen alas posticas non aut vix superans. Pedes validi, subpilosi, calcaria longa. Alæ sat angustæ, late fimbriatæ; anticæ apice subrotundatæ, margine exteriore subobliquo.

Pyralis, *Linn.*
Asopia, *Treit.; Herr.-Schæff.*
Hypsopygia, p., et Euclita, p., *Hübn. Verz. Schm.* 347, 348.

Body slender. Proboscis short. Palpi pubescent, obliquely

ascending, not rising above the vertex; second joint slightly curved; third linear, conical at the tip, about half the length of the second. Antennæ stout, pubescent in the male, bare in the female. Abdomen not or hardly extending beyond the hind wings. Legs stout, slightly pilose, moderately long; spurs long. Wings rather narrow; fringe broad. Fore wings slightly rounded at the tips, slightly oblique along the exterior border.

Type, *P. farinalis*.

Europe.

A. Alæ anticæ fasciatæ.
  A. Alæ anticæ rubidæ. - - - - farinalis, *Linn.*
  B. Alæ anticæ nigro-cinereæ. - - domesticalis, *Zell.*
B. Alæ anticæ lineatæ.
  A. Alæ anticæ disco fulvo. - - - regalis, *Wien. Verz.*
  B. Alæ anticæ disco non fulvo.
    a. Alæ anticæ roseæ. - - - fimbrialis, *Wien. Verz.*
    b. Alæ anticæ non roseæ.
      a. Alæ posticæ bilineatæ.
        i. Alæ cinereæ aut glaucæ.
          * Alæ anticæ basi non pallidiores.
            glaucinalis, *Linn.*
          ** Alæ anticæ basi non pallidiores.
            † Alæ fimbria basi fusca.
              perversalis, *Herr.-Schæff.*
            †† Alæ fimbria fulva. - - fulvocilialis, *Dup.*
        ii. Alæ plus minusve ochraceæ.
          * Alæ lineis flavis. - - rubidalis, *Wien. Verz.*
          ** Alæ lineis albidis. - - incarnatalis, *Zell.*
      b. Alæ posticæ unilineatæ. - - - lucidalis, *Hübn.*

1. Pyralis fimbrialis.

Purpureo-rosea; alæ margine exteriore fimbriaque aureo-flavis, lineis duabus undulatis flavis; anticæ maculis duabus costalibus aureo-flavis.

Pyralis fimbrialis, *Wien. Verz.* 124, 38. *Hübn. Pyral.* pl. 15, f. 77; *Beitr.* pl. 2, f, h. *Dup. Lép.* 201, pl. 223, f. 5. *Luc. Expl. Alg.* 154. *Guen. Delt. et Pyral.* 118, 3.

Phalæna costalis, *Fabr. Sp. Ins.* ii. 275, 196; *Mant. Ins.* ii. 224, 322; *Ent. Syst.* iii. 2, 240, 420. *Stew. El.* ii. 181. *Turt. Syst.* iii. 284. *Illig. N. Auss.* ii. 27, 38.

Phalæna-Pyralis costalis, *Gmel. ed. Syst. Nat.* i. 5, 2526, 958.

Crambus costalis, *Haw. Lep. Brit.* 375.
Hypsopygia costalis, *Hübn. Verz. Schm.* 348, 3337. *Steph. Ill. Brit. Haust.* iv. 27.
Asopia fimbrialis, *Treit. Schm.* vii. 7, 154. *Herr.-Schæff. Eur. Schm.* iv. 122, 8.

a—k. England. From Mr. Stephens' collection.
l, m. England.
n, o. Europe. From M. Becker's collection.
p. Nova Scotia. From Mr. Stevens' collection.

2. PYRALIS FARINALIS.

Cinerea; alæ anticæ rubidæ, fascia latissima subcervina subundulata albo marginata extus fusco plagiata; postice fusco-cinereæ, lineis duabus undulatis albidis, guttis anterioribus maculisque posterioribus marginalibus fuscis.

——— ———, *Geoff. Ins. Par.* 167. *Schæff. Icon.* pl. 95, f. 8, 9.
Phalæna-Pyralis farinalis, *Linn. Syst. Nat.* 880, 327; *Faun. Suec.* 1348. *Clerck, Icon.* pl. 2, f. 14. *Scop. Ent. Carn.* 240, 608. *Wien. Verz.* 123, 33. *Gmel. ed. Syst. Nat.* i. 5, 2519, 327. *Turt. Syst. Nat.* iii. 273.
Phalæna farinalis, *Fabr. Sp. Ins.* ii. 270, 169; *Mant. Ins.* ii. 216, 264; *Ent. Syst.* iii. 2, 219, 336. *Brahm, Ins.* 521. *Schr. Faun. Boic.* ii. 68, 1730.
Phalæna Pyralis, *Fuessl. Schw. Ins.* 41. 808.
Pyralis farinalis, *Hübn. Pyral.* pl. 15, f. 95. *Brahm, Ins.* ii. 1, 151, 380. *Panz. Faun. Germ.* x. 21. *Illig. N. Auss.* ii. 26, 33. *Mull. Faun. Frid.* 54, 478; *Zool. Dan.* 132, 1530. *Dup. Lép.* 193, pl. 223, f. 1. *Steph. Ill. Brit. Haust.* iv. 25, 1. *Luc. Expl. Alg.* 149. *Guen. Delt. et Pyral.* 119, 6.
Hypsopygia farinalis, *Hübn. Verz. Schm.* 348, 3335.
Asopia farinalis, *Treit. Schm.* vii. 147, 1. *Zell. Ent. Zeit. Stett.* iv. 140. *Herr.-Schæff. Eur. Schm.* iv. 121, 5.
Var. Asopia lienigialis, *Herr.-Schæff. Eur. Schm.* iv. 121, f. 49.

a—p. England. From Mr. Stephens' collection.
q, r. England.
s, t. Germany. From M. Heminghoffen's collection.
v—x. Europe. From M. Becker's collection.
y, z. Madeira. Presented by the Entomological Club.
aa, bb. United States. Presented by E. Doubleday, Esq.
cc—gg. Nova Scotia. From Lieut. Redman's collection.
hh. South Africa. Presented by Sir A. Smith.
ii—mm. Cape. From M. Dregé's collection.
nn. Australia. Presented by the late Earl of Derby.

3. PYRALIS DOMESTICALIS.

Cinerea; caput luteum; alæ anticæ nigro-cinereæ, spatio medio olivaceo arcuato albo marginato, linea marginali alba; posticæ lineis duabus undulatis albis.

Asopia domesticalis, *Zell. Isis*, 1847, 590. *Herr.-Schæff. Eur. Schm.* iv. 122, 7, pl. 1, f. 1.

Pyralis domesticalis, *Guen. Delt. et Pyral.* 120, 7.

Sicily.

4. PYRALIS PERVERSALIS.

Fusco-cinerea; corpus pallide lateritium; alæ linea exteriore bidentata, interiore flexuosa, fimbria basi fusca; anticæ basi costaque pallide lateritiis.

Asopia perversalis, *Herr.-Schæff. Eur. Schm.* iv. 123, 13, pl. 1, f. 6.

Pyralis perversalis, *Guen. Delt. et Pyral.* 122, 12.

Ural Region.

5. PYRALIS GLAUCINALIS.

Fusco glaucescens; alæ anticæ punctis costalibus luteis, lineis duabus pallidioribus; posticæ glauco-cinereæ, lineis duabus albidis.

Phalæna-Pyralis glaucinalis, *Linn. Syst. Nat.* 881. 328; *Faun. Suec.* 1349. *Clerck. Icon.* pl. 3, f. 4. *Gmel. ed. Syst. Nat.* i. 5, 2519, 328. *Turt. Syst. Nat.* iii. 273.

Phalæna glaucinalis, *Fabr. Sp. Ins.* ii. 270, 170; *Mant. Ins.* ii. 216, 265; *Ent. Syst.* iii. 2, 219, 337.

Pyralis glaucinalis, *Wien. Verz.* 120, 10. *Schr. Fn. Boic.* ii. 2, 59, 1704. *Mull. Faun. Frid.* 54, 479; *Zool. Dan.* 132, 1531. *Illig. N. Mag.* iv. 4. *Dup. Lep.* 196, pl. 223, f. 2. *Steph. Ill. Brit. Haust.* iv. 26, 3. *Guen. Delt. et Pyral.* 122, 14.

Phalæna nitidalis, *Fabr. Ent. Syst.* iii. 2, 228, 372.

Pyralis nitidalis, *Hubn. Pyral.* pl. 15, f. 98.

Crambus glaucinatus, *Haw. Lep. Brit.* 374.

Euclita incalidalis, *Hubn. Verz. Schm.* 347, 3317.

Asopia glaucinalis, *Treit. Schm.* vii. 149, 2. *Herr.-Schæff. Eur. Schm.* iv. 122, 11.

a—d. England. From Mr. Stephens' collection.

e—i. England.

6. PYRALIS FULVOCILIALIS.

Glauca; alæ basi fuscescentes, lineis interiore et exteriore subparallelis albis, illa bisinuata, hac arcuata, fimbria fulva.

Pyralis fulvocilialis, *Dup. Lep.* 375, pl. 236, f. 6. *Guen. Delt. et Pyral.* 123, 15.
Asopia fulvocilialis, *Herr.-Schæff. Eur. Schm.* iv. 123, 14.
Digne.

7. PYRALIS REGALIS.

Violacea; caput et thorax fulva; alæ lineis interiore et exteriore albis antice dilatatis; anticæ disco fulvo.

Pyralis regalis, *Wien. Verz.* 124, 37. *Illig. N. Auss.* ii. 27, 37. *Hubn. Pyral.* pl. 16, f. 105. *Eversm. Faun.* 466, f. 2. *Guen. Delt. et Pyral.* 123, 16.
Hypsopygia regalis, *Hubn. Verz. Schm.* 348, 3336.
Asopia regalis, *Treit. Schm.* vii. 153, 6. *Herr.-Schæff. Eur. Schm.* iv. 122, 9.
Austria. Hungary. South Russia.

8. PYRALIS RUBIDALIS.

Ochraceo-fusca; alæ lineis interiore et exteriore flavis antice vix dilatatis, illa flexuosa.

Pyralis rubidalis, *Wien. Verz.* 124, 36. *Illig. N. Auss.* ii. 27, 36. *Hubn. Pyral.* pl. 15, f. 96. *Guen. Delt. et Pyral.* 123, 17.
Hypsopygia rubidalis, *Hubn. Verz. Schm.* 348, 3334.
Asopia rubidalis, *Treit. Schm.* vii. 150, 3. *Herr.-Schæff Eur. Schm.* iv. 122, 10.
South and East Europe.

9. PYRALIS LUCIDALIS.

P. rubidali *simillima, magis sordida, minus varia, non rufescens; lineæ subpallidiores diffusæ, puncto discali nigro; posticæ linea unica.*

Pyralis lucidalis, *Hubn. Pyral.* pl. 25, f. 161. *Eversm. Faun.* 466, f. 5. *Guen. Delt. et Pyral.* 123. 18.
Hypsopygia lucidalis, *Hubn. Verz. Schm.* 348, 3333.
Asopia lucidalis, *Treit. Schm.* vii. 151, 4.
Ural Region.

10. PYRALIS INCARNATALIS.

Sordide ochracea; abdomen pallide roseum; alæ anticæ lineis interiore et exteriore albidis subrectis; posticæ pallide roseæ, bilineatæ.

Pyralis incarnatalis, *Zell. Isis*, 1847, 591. *Guen. Delt. et Pyral.* 124, 19.
Pyralis lucidalis, *Dup. Lep.* 198, pl. 223, f. 3.
Asopia incarnatalis, *Herr.-Schæff. Eur. Schm.* iv. 122, 12, pl. 1, f. 2.

South France. Italy.

North America.

11. PYRALIS OLINALIS.

Mas. P. fimbriali *valde affinis, major; alæ magis nigricantes minus roseæ, fimbria basi rufa; palpi angulati; antennæ valde pubescentes.*

Pyralis olinalis, *Guen. Delt. et Pyral.* 118, 4.

North America?

12. PYRALIS HYLLALIS.

Mas. *Pallide lutea, cinerascente vix suffusa; palpi erecti; articulus 3us longi-conicus, 2i dimidio brevior; antennæ vix setosæ; alæ nigro subconspersæ, margine exteriore luteæ, fimbria late flava; anticæ maculis duabus costalibus magnis subtrigonis luteis, lineis duabus pallidis obliquis.*

Nearly allied to *P. fimbrialis*. *Male.*—Dull pale luteous, with a slight cinereous tinge. Palpi erect; third joint elongate-conical, straight, less than half the length of the second. Antennæ very minutely setose. Abdomen with a bright luteous apical tuft. Wings minutely speckled with black; exterior border bright luteous; fringe bright yellow. Fore wings with two large bright luteous nearly triangular spots, from whence two paler oblique lines proceed to the interior border. Hind wings with the disk not speckled. Length of the body 3 lines; of the wings 8 lines.

a. Philadelphia. Presented by E. Doubleday, Esq.

South America.

13. Pyralis Manihotalis.

Testaceo-cinerea; palpi breves, arcuati, articulo 3o brevi truncato bene determinato; alæ nigricante conspersæ, fimbria pallidiore interlineata; anticæ lineis duabus medianis pallidis tremulis, 1a erecta, 2a subarcuata, strigis costalibus albis, puncto discali nigro; posticæ linea 2a subdentata.

Pyralis Manihotalis, *Guen. Delt et Pyral.* 121, 11.

Cayenne.

14. Pyralis nostralis.

Rufescens; palpi breves, articulo 3o brevi inflexo; alæ testaceo-cinereæ, fimbria bilineata, lineis duabus medianis nigricantibus; anticæ apud costam rufescentes strigis fuscis, lineis duabus erectis remotis parallelis; posticæ lineis approximatis rotundatis.

Pyralis nostralis, *Guen. Delt. et Pyral.* 122, 12.

Brazil.

a—e. Venezuela. From Mr. Dyson's collection.

Africa.

15. Pyralis? Bolinalis.

Fœm. *Testaceo-cinerea; palpi porrecti; articulus 3us lanceolatus, 2i dimidio non longior; abdomen alas posticas superans; alæ anticæ lineis duabus albis, 1a recta vix obliqua roseo marginata, 2a valde flexa et undulata roseo ex parte marginata; posticæ cinereo-albæ.*

Female. Testaceous-cinereous. Palpi porrect; third joint lanceolate, about half the length of the second. Abdomen extending rather beyond the hind wings. Fore wings with two white lines; first line straight, hardly oblique, bordered with rose-colour; second line most deeply bent and undulating, partly bordered with rose-colour; its fore end near the tip of the costa. Hind wings cinereous white. Length of the body 4½ lines; of the wings 10 lines.

a. South Africa. Presented by Sir A. Smith.

Mauritius.

16. Pyralis Mauritialis.

Alæ carneo-violaceæ, strigis duabus communibus transversis pallidioribus; fimbria lutea.

Asopia Mauritialis, *Boisd. Faun. Ent. Mad. Bourb. et Maur. Lep.* 119, pl. 16, f. 8.

Pyralis Mauritialis, *Guen. Delt. et Pyral.* 118, 5.

Mauritius.

Asia.

A. Alæ anticæ ochraceo-albæ. - - - Mensalis, *Guen.*

B. Alæ anticæ subplumbeæ. - - - - pictalis, *Curt.*

C. Alæ anticæ non ochraceo albæ nec subplumbeæ.

A. Alæ anticæ puncto discali fuseo. - - phycidalis, *Guen.*

B. Alæ anticæ punctis duobus discalibus. - Palisalis, *Walk.*

C. Alæ anticæ puncto nullo discali.

a. Palpi non angulati. - - - - Lucillalis, *Walk.*

b. Palpi angulati.

a. Palporum articulus 3us brevissimus. - ignifualis, *Walk.*

b. Palporum articulus 3us non brevissimus. Pelasgalis, *Walk.*

17. Pyralis Mensalis.

Mas. *Ochraceo-alba; caput rufescens; palpi subarcuati, articulo 3o distinctissimo; antennæ setis longiusculis; alæ anticæ angustæ, oblongæ, lateritio conspersæ, apice productæ, lineis duabus medianis remotis, 1a erecta subflexa, spatio basali maculaque exteriore costali nigro-fuscis; posticæ pallidiores, linea sinuata margineque exteriore adhuc pallidioribus.*

Pyralis elongalis, *Roll. Von Hug. Kasch.* 493.

Pyralis Mensalis, *Guen. Delt. et. Pyral.* 120, 8.

Hindostan.

18. Pyralis pictalis.

Subplumbea; alæ basi saturatiores, fascia media lata pallide castanea utraque albo marginata.

Asopia pictalis, *Curt. Brit. Ent.* xi. pl. 527. *Herr.-Schæff. Eur. Schm.* iv. 123, 15.

Pyralis pictalis, *Steph. Ill. Brit. Haust.* iv. 395. *Guen. Delt. et Pyral.* 120, 9.

Hindostan.

19. PYRALIS PHYCIDALIS.

Fœm. *Flavescente-carnea, alæ anticæ spatio basali, margineque exteriore fasciaque hepatico-fuscis, lineis duabus angustis undulatis parallelis strigisque quatuor pallidis, puncto diseali fusco; posticæ sordide albæ.*

Pyralis phycidalis, *Guen. Delt. et Pyral.* 121, 10.

Hindostan.

20. PYRALIS IGNIFLUALIS.

Fœm. *Cervina, subtus rufescente-cinerea testaceo varia; palpi angulati, articulo 3o brevissimo; thorax antice rufescens; abdomen attenuatum; alæ lineis duabus indistinctis vix undulatis, margine exteriore nigricante, fimbria aurea basi rufescente; anticæ maculis duabus punctisque octo intermediis costalibus flavescentibus, margine exteriore perobliquo; posticæ saturate rufæ.*

Female. Fawn-colour, reddish cinereous and partly testaceous beneath. Proboscis stout. Palpi obliquely ascending; third joint very minute, forming a distinct angle with the second, of which it is not more than one-sixth of the length. Thorax reddish along the fore border. Abdomen attenuated hindward; oviduct terebriform. Wings with a golden yellow fringe, which is reddish at the base and red by the costa of the fore wings; exterior border blackish; lines indistinct, hardly undulating, a little darker than the ground-colour and slightly pale-bordered, yellowish and enlarged on the costa of the fore wings. Fore wings hardly acute, with eight yellowish costal points between the lines; exterior border very oblique. Hind wings deep red. Length of the body 5 lines; of the wings 10 lines.

a. Ceylon. Presented by R. Templeton, Esq.

21. PYRALIS LUCILLALIS.

Fœm. *Purpurascente-rufa; palpi non angulati; articulus 3us linearis, 2i dimidio vix brevior; abdomen attenuatum; pedes lutei; alæ nigro subconspersæ, subtus luteo venosæ, margine exteriore luteo, fimbria pallide aurata, lineis duabus flavescentibus valde undulatis; anticæ apice subrotundatæ, maculis duabus punctisque quatuor intermediis costalibus flavis.*

Female. Purplish red. Palpi obliquely ascending; third joint linear, not forming an angle with the second, of which it is nearly half the length. Abdomen attenuated towards the tip, extending a little beyond the hind wings; oviduct terebriform. Legs luteous. Wings minutely speckled with black, luteous beneath along the veins, and in the hind wings towards the base; exterior border luteous; fringe pale gilded yellow; lines yellowish, very undulating, extending from two yellow costal spots on the fore wings; the latter somewhat rounded at the tips and with four yellow points between the costal spots. Length of the body 3½ lines; of the wings 8 lines.

a, b. Shanghai. From Mr. Fortune's collection.

22. PYRALIS PELASGALIS.

Fœm. *Rosea; palpi angulati; articulus 3us extus nigricans, 2i dimidio longior; antennæ robustæ, nudæ; pedes validi, tibiis posticis tarsisque pallide luteis; alæ nigro subconspersæ, purpurascente vix suffusæ, lineis duabus pallidis, fimbria aurea; anticæ maculis duabus costalibus flavis.*

Female. Rose-colour. Third joint of the palpi blackish on the outside, more than half the length of the second, with which it forms a distinct angle. Antennæ thick, bare. Legs stout; tarsi and hind tibiæ pale luteous. Wings slightly speckled with black and with a slight purplish tinge; two pale lines which proceed from two yellow costal spots on the fore wings; fringe gold-colour, bright red towards the base and by the costa of the fore wings. Length of the body 5 (?) lines; of the wings 12 lines.

a. North China. From Mr. Fortune's collection.

23. PYRALIS PALESALIS.

Mas. *Rufescente-cinerea; palpi longiusculi; articulus 3us lanceolatus, 2i triente non longior; alæ anticæ squamosæ, nigro subconspersæ, fasciis duabus obliquis albido-flavis nigricante submarginatis, 1a apud costam dilatata, 2a antice abbreviata, lineola postica angulosa, lunulis marginalibus, puncto discali guttaque interiore nigricantibus; posticæ cinerascentes, lineis duabus pallidioribus.*

Male. Reddish cinereous. Palpi rather long, ascending obliquely, a little higher than the vertex; third joint lanceolate,

about one-third of the length of the second. Fore wings coarsely squamous, slightly speckled with black; two irregular oblique whitish yellow bands slightly and diffusedly bordered with blackish; first band dilated along the costa; second abbreviated in front, accompanied hindward by a zigzag line of the same hue; marginal lunules blackish; a blackish point in the first band, and a blackish dot between the latter and the base of the wing. Hind wings more cinereous, with two paler lines. Length of the body 4½ lines; of the wings 12 lines.

Ceylon. In Mr. Layard's collection.

Australasia.

24. Pyralis Marthalis.

Fœm. *Purpurascente-rufescens, vix cinerascens; palpi angulati, oblique ascendentes, articulo 3o conico brevi; abdomen apice tubiforme subcompressum; alæ nigro subconspersæ, lineis duabus subundulatis flavescentibus, fimbria aurata; anticæ maculis duabus costalibus flavis.*

Mas? *Læte-rufa; antennæ setosæ; alæ anticæ lineis subobsoletis; posticæ non purpurascentes, margine interiore postico fimbriato, lineis supra obsoletis, linea exteriore subtus conspicua.*

Female. Dull purplish red, with a cinereous tinge. Palpi obliquely ascending, rising a little above the vertex; third joint conical, forming a nearly right angle with the second, of which it is not more than one-fourth of the length. Antennæ bare. Abdomen extending a little beyond the hind wings, tubiform and slightly compressed towards the tip. Wings minutely speckled with black; two slightly undulating yellowish lines, which proceed from two brighter yellow spots on the costa of the fore wings; fringe golden yellow. Fore wings acute. Length of the body 5 lines; of the wings 11 lines.

Male? Brighter red than the female, especially on the hind wings, which have not a purple tinge. Antennæ with rather long setæ, which much decrease in length towards the tips. Wings with a bright golden fringe, except by the costa of the fore wings. Fore wings with the lines nearly obsolete; interior costal spot very small; four bright yellow points between it and the exterior one. Hind wings with long red hairs towards the end of the interior

border; lines quite obsolete above; the exterior one distinct beneath. Length of the body 4½ lines; of the wings 9 lines.

a—c. Sarawak, Borneo. From Mr. Wallace's collection.

25. Pyralis Dorcasalis.

Mas. *Rufescente-cinerea; palpi angulati, articulo 3o conico minimo; antennæ nudæ, robustæ; pedes testacei; alæ nigro subconspersæ, lineis duabus pallidioribus indistinctis subundulatis submarginatis, margine exteriore subnigricante, fimbria aureo-flava.*

Male. Cinereous, with a slight reddish tinge. Palpi obliquely ascending; third joint conical, very minute, forming a distinct angle with the second, of which it is not more than one-sixth of the length. Antennæ bare, stout. Abdomen extending very little beyond the hind wings. Legs testaceous. Wings very minutely speckled with black; two indistinct slightly undulating lines, which are a little paler than the ground-colour, and are bordered with a darker hue; exterior border diffusedly blackish; fringe pale gilded yellow, reddish by the costa of the fore wings, which are acute. Length of the body 4 lines; of the wings 10 lines

a. Sarawak, Borneo. From Mr. Wallace's collection.

26. Pyralis Melanthalis.

Mas. *Rufescente-cinerea; palpi breves, incumbentes; antennæ valde pubescentes; alæ spatio medio cinereo-rufo extus convexo, guttis marginalibus nigricantibus; anticæ punctis costalibus albis, litura discali nigra.*

Male. Reddish cinereous. Palpi short, incumbent. Antennæ very pubescent. Wings with the middle half cinereous-red, slightly bordered with black, and convex on the outer side; exterior part shaded with blackish cinereous in the middle; marginal dots blackish; fringe interlined. Fore wings with white costal points, and with a black discal mark. Length of the body 3 lines; of the wings 7 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

Country unknown.

27. Pyralis? Procrisalis.

Mas. *Obscure rufa; palpi oblique ascendentes; articulus 3us lanceolatus, 2i dimidio longior; antennæ nudæ; abdomen fuscescens, alas posticas superans, segmentis pallido marginatis; alæ angustæ; anticæ fasciis duabus margineque exteriore cinereis, hoc vix obliquo; posticæ fuscescente-cinereæ, fimbria albido-cinerea.*

Male. Dull red, cinereous beneath. Proboscis stout. Palpi obliquely ascending, not rising above the vertex; third joint lanceolate, more than half the length of the second. Antennæ quite bare. Abdomen brownish, extending beyond the hind wings; hind borders of the segments pale cinereous. Wings narrow. Fore wings with two cinereous bands; the exterior one formed of irrelar more or less diffuse lines; exterior border and fringe cinereous; a slight black marginal line; tips slightly rounded; exterior border hardly oblique. Hind wings brownish cinereous; fringe whitish cinereous. Length of the body 5 lines; of the wings 14 lines.

a. ——? Presented by the Entomological Club.

28. Pyralis? Nauplialis.

Mas et fœm. *Ferrugineo-fusca, nigro conspersa; palpi erecti; articulus 2us arcuatus; 3us rectus, lanceolatus, 2i dimidio non brevior; antennæ nudæ; pedes nigricante fasciati; alæ anticæ apud costam subconvexæ, apice subrotundatæ, lineis duabus ferrugineis valde lanceolatis nigro marginatis, guttis marginalibus nigris; posticæ albido-cinereæ.*

Male and female. Ferruginous-brown, speckled with black, cinereous beneath. Proboscis moderately long. Palpi erect, rising higher than the vertex; second joint curved; third straight, lanceolate, full half the length of the second. Antennæ bare. Abdomen cinereous, extending very little beyond the hind wings. Legs cinereous, with blackish bands. Fore wings slightly convex along the costa, somewhat rounded at the tips; two ferruginous much lanceolated lines, diffusedly bordered with black; marginal dots black; exterior border interlined in the female, dotted with black in the male. Hind wings whitish cinereous. Length of the body $4\frac{1}{2}-5\frac{1}{2}$ lines; of the wings 11—13 lines.

a, b. ——? Presented by the Entomological Club.

Genus 2. GLOSSINA.

Fœm. Corpus robustum. Proboscis valida. Palpi longi, tenues, arcuati, ascendentes, ad frontem applicati, non compressi; articulus 3us longus, linearis, acicularis. Palpi maxillares recti, conici, squamosi. Antennæ tenues, filiformes. Abdomen crassum, apice truncato-conicum; oviductus hirsutus. Pedes robusti, squamosi, annulati. Alæ densæ, latiusculæ, squamosæ, integræ, rotundatæ; anticæ lituris distinctæ; posticæ lituris nullis.

Glossina, *Guen. Delt. et Pyral.* 124.

Female. Body robust. Proboscis stout. Palpi long, slender, curved, ascending, applied to the front, not compressed; third joint long, linear, acicular. Maxillary palpi straight, conical, squamous. Antennæ slender, filiform. Abdomen thick; tip truncate-conical; oviduct hirsute. Legs stout, squamous, with rings, moderately long. Wings thick, entire, squamous, rather broad, rounded at the tips; fringe broad, squamous. Fore wings with distinct markings. Hind wings with no markings.

Asia.

1. GLOSSINA DIVITALIS.

Fœm. *Saturate rufescente-fusca; alæ anticæ fasciis duabus vittaque discali antice bis dilatata viridescente-flavis, fimbria rufa; posticæ nigro-fuscæ, fimbria rufa.*

Glossina divitalis, *Guen. Delt. et Pyral.* 124, 20.

Hindostan.

a, b. ———? Presented by E. Doubleday, Esq.

Australia.

2. GLOSSINA HABITALIS.

Fœm. *Rufo-cinerea, cupreo tincta; abdomen supra depressum, oviductu longiusculo; alæ anticæ oblongæ, rotundatæ, lineis duabus concisis nigris remotis dentatis, puncto discali, strigis marginalibus nigris bene determinatis; posticæ albidæ.*

Glossina habitalis, *Guen. Delt. et Pyral.* 125.

Australia.

Genus 3. AGLOSSA.

Corpus sat robustum. Frons plana, villosa. Ocelli obsoleti. Proboscis non conspicua. Palpi validi, porrecti, subincumbentes, subarcuati; articulus 2us subtus pilosus; 3us lanceolatus, 2i dimidio non longior. Palpi maxillares tenues, penicillati. Abdomen alas posticas paullo superans. Pedes longi, validi; tibiæ crassæ, calcaribus longis. Alæ integræ, rotundatæ, longiusculæ; anticæ robustæ, squamosæ, nebulosæ. *Mas.*—Antennæ setis ciliatis.

Pyralis, p., *Schr.*

Hypsopygia, p., et Euclita, p., *Hübn. Verz. Schm.* 347, 348.

Aglossa, *Latr. Cons.* 369; *Treit.*; *Dup.*; *Steph.*; *Herr.-Schæff.*; *Guen. Delt. et Pyral.* 125.

Body moderately stout. Front flat, villose. Ocelli obsolete. Proboscis obsolete or nearly so. Labial palpi stout, porrect, slightly decumbent and curved, extending some space beyond the head; second joint pilose beneath; third lanceolate, about half the length of the second. Maxillary palpi represented by a slender pencil of hairs. Thorax with the tegulæ diverging. Abdomen extending a little beyond the hind wings. Legs long, stout; tibiæ thick; spurs long. Wings entire, rounded, rather long, moderately broad; fringe broad, squamous. Fore wings thick, squamous, clouded. *Male.*—Antennæ with fine ciliated setæ. Abdomen with an anal tuft. *Female.*—Abdomen with a more or less produced terebriform oviduct.

Europe.

1. Aglossa pinguinalis.

Pallide cinereo-fusca; alæ anticæ nigricante conspersæ, lineis undulatis denticulatis nigricantibus non bene determinatis, litura reniformi guttisque marginalibus nigricantibus.

——— ———, *DeGeer, Ins.* ii. 371, pl. 6, f. 11. *Réaum. Ins.* iii. pl. 20. *Roland, Act. Holm.* 1758, 51, pl. 2. *Schæff. Icon.* pl. 6, f. 8, 9.

Phalæna-Pyralis pinguinalis, *Linn. Faun. Suec.* 1350; *Syst. Nat.* ii. 882, 336. *Gmel. ed. Syst. Nat.* i. 5, 2523, 336. *Stew. El.* ii. 181. *Turt. Syst.* iii. 279.

Phalæna pinguinalis, *Fabr. Sp. Ins.* ii. 273, 184; *Mant. Ins.* ii. 220, 292; *Ent. Syst.* iii. 2, 230, 377. *Brahm, Ins.* ii. 1, 111, 50; 388, 267. *Schr. Faun.* ii. 2, 59, 1705.

Pyralis pinguinalis, *Wien. Verz.* 120, 13. *Hübn. Pyral.* pl. 4, f. 24. *Mull. Faun. Frid.* 54, 479; *Zool. Dan.* 133, 1537. *Illig. N. Auss.* ii. 10, 13. *Fuessl. Schr. Ins.* 42, 815. *Lang. Verz.* ii. 209, 1421.
Crambus pinguinatus, *Haw. Lep. Brit.* 371.
Euclita pinguinalis, *Hübn. Verz. Schm.* 347, 3316.
Aglossa pinguinalis, *Latr. Hist. Nat.* xiv. 229. *Treit. Schm.* vii. 39, 2. *Dup. Lép.* 63, pl. 213, f. 6. *Steph. Ill. Brit. Haust.* iv. 23. *Herr.-Schæff. Eur. Schm.* iv. 119, 1. *Guen. Delt. et Pyral.* 127, 22.

a—*k*. England. From Mr. Stephens' collection.
l. England.
m, *n*. Italy. From Dr. Leach's collection.
o—*s*. Europe. From M. Becker's collection.
t. ———?

2. AGLOSSA CUPREALIS.

Rufescente-cinerea; thorax nigro fasciatus; alæ anticæ nigro conspersæ et apud costam nebulosæ, lineis denticulatis undulatis pallidis, strigis marginalibus nigris; posticæ cinereæ.

Pyralis cuprealis, *Hübn. Pyral.* pl. 23, f. 153.
Hypsopygia cuprealis, *Hübn. Verz. Schm.* 348, 3331.
Crambus cupreolatus, *Haw. Lep. Brit.* 372.
Aglossa cuprealis, *Treit. Schm.* vii. 38, 1. *Dup. Lép.* 67, pl. 213, f. 5. *Steph. Ill. Brit. Haust.* iv. 23. *Herr.-Schæff. Eur. Schm.* iv. 119, 2, pl. 8, f. 51. *Guen. Delt. et Pyral.* 127.

a—*e*. England. From Mr. Stephens' collection.
f—*h*. England.
i, *j*. Europe. From M. Becker's collection.
k. Constantinople. From Mr. Lamb's collection.
l, *m*. United States. Presented by E. Doubleday, Esq.
n. Nova Scotia. From Lieut. Redman's collection.

North America.

3. AGLOSSA DOMALIS.

A. cupreali *similima; alæ latiores, breviores, magis rotundatæ; posticæ obscuriores, pallido subfasciatæ, apud angulum interiorem elongatæ.*

Aglossa domalis, *Guen. Delt. et Pyral.* 128, 24.

North America.

The North American specimens of *A. cuprealis* seem to be quite similar to those of Europe, and not to have the peculiarities by which *A. domalis* is here characterized.

South Africa.

4. Aglossa ignalis.

Mas. *Lateritio rufa; palpi tenues, recti, articulo 3o ovali sat distincto; antennæ validæ, ciliato subserratæ; abdomen pallide rufum; alæ anticæ lineis duabus undulatis punctoque discali saturatioribus, margine exteriore subquadrato; posticæ rufescente-albæ, subtus magis flavescentes costæ lineaque rufis.*

Aglossa ignalis, *Gueu. Delt. et Pyral.* 128, 26.

Caffraria.

5. Aglossa laminalis.

Mas. *Cupreo-rufa; palpi longi, recti, incumbentes, rostriformes; alæ anticæ angustæ, apud costam subexcavatæ, apice productæ, margine exteriore recto obliquo, disco ex parte lineisque duabus pallidissime ochraceo-flavis, linea interiore angulosa, exteriore sinuata denticulata, gutta discali rotundata obscura; posticæ pallidissime ochraceæ.*

Aglossa laminalis, *Guen. Delt. et Pyral.* 129, 27.

Caffraria.

a—d. South Africa. Presented by Sir A. Smith.

6. Aglossa? Harpyialis.

Mas. *Rufescente-cinerea; palpi porrecti; articulus 3us conicus, brevissimus; abdomen alas posticas perparum superans; pedes robusti; alæ anticæ nigro subconspersæ, lineis interiore et exteriore nigris denticulatis interruptis, hac obliqua undulata, illa erecta, orbiculari et reniformi nigris non bene determinatis; posticæ pallide cinereæ.*

Male. Reddish cinereous, paler beneath. Palpi porrect, shorter than the breadth of the head; third joint minute, conical, not more than one-fourth of the length of the second. Abdomen extending very little beyond the hind wings. Legs stout. Fore

wings minutely speckled with black; interior and exterior lines black, denticulated, here and there interrupted; the first upright; the other oblique, undulating; orbicular and reniform spots slightly marked in black. Hind wings pale cinereous. Length of the body 5 lines; of the wings 12 lines.

a, *b*. South Africa. Presented by Sir A. Smith.

Asia.

7. Aglossa dimidialis.

Purpurascente-cinerea; alæ anticæ lineis quinque nebulosis nigris; posticæ pallide fuscæ.

Crambus dimidiatus, *Haw. Lep. Brit.* 372.
Aglossa dimidiatus, *Steph. Ill. Brit. Haust.* iv. 24.
Aglossa dimidialis, *Guen. Delt. et Pyral.* 128, 25.

Hindostan.

8. Aglossa micalialis.

Fœm. *Fuscescente-cinerea; palpi oblique ascendentes; articulus 2us arcuatus; 3us lanceolatus, 2i dimidio longior; alæ longiusculæ, sat angustæ; anticæ apud costam vix convexæ, apice rotundatæ, margine exteriore perobliquo, lituris costalibus lineisque angulosis pallidis, strigis marginalibus nigricantibus; posticæ linea exteriore pallida undulata indistincta.*

Female. Brownish cinereous. Palpi obliquely ascending; second joint curved; third lanceolate, more than half the length of the second. Wings rather long and narrow. Fore wings very slightly convex along the costa, rounded at the tips, very oblique along the exterior border; some pale marks along the costa; lines pale, zigzag, not distinct; a row of slight marginal blackish streaks. Hind wings very little paler than the fore wings, with an indistinct pale undulating exterior line. Length of the body 7 lines; of the wings 16 lines.

a. Shanghai. From the collection of the Entomological Society.

9. Aglossa Gnidusalis.

Fœm. *Cinerea ; palpi oblique ascendentes ; articulus 3us 2o brevior ; alæ lineis interiore et exteriore pallidis denticulatis obscuro intus marginatis, linea submarginali e punctis nigris ; anticæ apud costam obscuræ punctis pallidis, striga pallida reniformem nigricantem includente.*

Female. Cinereous. Palpi obliquely ascending; third joint shorter than the second. Wings with the interior and exterior lines denticulated, pale, with dark inner borders, submarginal line composed of black points. Fore wings dark and with pale points along part of the costa; reniform mark blackish, a pale streak. Length of the body 4 lines; of the wings 10 lines.

Ceylon. In Mr. Layard's collection.

Genus 4. STEMMATOPHORA.

Corpus gracile. Ocelli duo distincti. Proboscis longiuscula. Palpi recti, squamosi, non longi, articulis indistinctis, 3o brevissimo. Palpi maxillares vix conspicui. Antennæ maris pubescentes aut ciliatæ. Abdomen alas posticas superans. Pedes læves. Alæ integræ, fimbria mediocri; anticæ apud costam rectæ, apice obtusæ, margine exteriore quadrato.

Pyralis, p., *Fisch.-Rosl.; Dup.; Herr.-Schæff.*
Stemmatophora, *Guen. Delt. et Pyral.* 129.

Body slender. Ocelli two, distinct. Proboscis rather long. Palpi straight, squamous, not long; joints indistinct; third very short. Maxillary palpi hardly visible. Antennæ of the male pubescent, or furnished with equal setæ. Abdomen extending beyond the hind wings. Legs smooth. Wings entire, of moderate breadth. Fore wings straight along the costa, obtuse at the tips; exterior border quadrate.

Europe.

1. Stemmatophora combustalis.

Cinnamomea ; alæ lineis interiore et exteriore angustis flavis, illa sinuata fracta, hac subarcuata ; anticæ lunula discali obscuriore.

Pyralis combustalis, *Fisch.-Rosl.* 278, pl. 93, f. 1. *Dup. Cat. Herr.-Schæff. Eur. Schm.* iv. 126, 22.

Pyralis rubidalis, *Dup. Lép.* 845, pl. 223, f. 7.
Stemmatophora combustalis, *Guen. Delt. et Pyral.* 131, 31.
Italy. Dalmatia. Corsica.

2. STEMMATOPHORA CORSICALIS.

Testaceo-cinerea; palpi breves, subtus rude squamosi et hirsuti; alæ anticæ nigro conspersæ, costa nigro strigata, linea exteriore pallida subsinuata intus nebulosa, interiore minus distincta, punctis marginalibus nigris, margine exteriore obliquo; posticæ pallidiores, strigis marginalibus nigricantibus.

Pyralis corsicalis, *Dup. Lép.* 306, pl. 230, f. 6, 7.
Stemmatophora corsicalis, *Guen. Delt. et Pyral.* 131, 32.
Isles d'Hyères. Corsica.

South Africa.

3. STEMMATOPHORA EXUSTALIS.

Mas. *Rufescente-testacea; proboscis longiuscula; palpi recti, squamosi, sat graciles; antennæ valde pubescentes; alæ lineis interiore et exteriore nigricantibus, 1a subarcuata, 2a sinuata.*

Stemmatophora exustalis, *Guen. Delt. et Pyral.* 130, 28.
Cape.

4. STEMMATOPHORA MUCIDALIS.

Fœm. *Testacea; palpi recti, sat crassi; alæ anticæ lateritio et nigricante variæ, costa nigricante strigis rufis, lineis interiore et exteriore undulatis postice approximatis nigricante nebulosis, puncto discali nigro, punctis marginalibus nigricantibus.*

Stemmatophora mucidalis, *Guen. Delt. et Pyral.* 130, 29.
Caffraria.

5. STEMMATOPHORA LATERITIALIS.

Fusco-rufa; palpi breves, recti; antennæ subpubescentes, lineis interiore et exteriore nigricantibus flavescente marginatis, 1a subarcuata; posticæ albidæ, margine rufescente.

Stemmatophora lateritialis, *Guen. Delt. et Pyral.* 130, 30.
Caffraria.

Genus 5. HYPOTIA.

Corpus sat robustum. Ocelli obsoleti. Proboscis nulla. Palpi graciles, recti; articulus 2us latiusculus, apice truncatus obliquus; 3us longus, linearis. Palpi maxillares conspicui, recti. Antennæ breviusculæ; articuli granulati, setosi. Abdomen crassum. Alæ integræ, non nitentes; anticæ apice acutæ, lineis bene determinatis; posticæ lineis vix ullis.

Synaphe, p. *Hübn. Verz. Schm.* 347.
Hypotia, *Zell. Isis*, 1847. *Herr.-Schæff. Guen. Delt. et Pyral.* 131.
Asopia, p. *Treit. Dup.*

Body rather stout. Ocelli obsolete. Proboscis wanting. Palpi slender, straight, extending somewhat beyond the head; second joint widened and obliquely truncate at the tip; third joint long, linear. Maxillary palpi straight, conspicuous, nearly half the length of the labial. Antennæ rather short; joints granulated, furnished with equal setæ. Abdomen thick. Wings entire, not shining. Fore wings acute at the tips; lines very distinct, in no wise parallel. Hind wings almost without lines.

1. Hypotia corticalis.

Olivaceo-fusca; alæ lineis interiore et exteriore latis albis, illa flexuosa dentem magnum in discum emittente, hac costam non attingente.

Pyralis corticalis, *Wien. Verz.* 125, 22. *Hübn. Pyral.* pl. 21, f. 137, 155.
Asopia corticalis, *Treit. Schm.* vii. 152, 5. *Dup. Lep.* 347, pl. 233, f. 8.
Hypotia corticalis, *Zell. Isis*, 1847, 593. *Herr.-Schæff. Eur. Schm.* iv. 120, 4. *Guen. Delt. et Pyral.* 132, 33.
Synaphe corticalis, *Hübn. Verz. Schm.* 347, 3329.

South and East Europe.

Genus 6. HYPSOPYGIA.

Corpus gracile. Ocelli obsoleti. Proboscis nulla. Palpi labiales arcuato-ascendentes; articuli distincti; 3us longus, linearis. Palpi maxillares minimi. Antennæ granulatæ; articuli vicissim fasciculato setosi et bisetosi. Abdomen crassum. Alæ integræ, rotundatæ; anticæ nebulosæ, non nitentes, lineis confusis; posticæ lituris nullis.

Hypsopygia, p. *Hübn. Verz. Schm.* 348. *Herr.-Schæff. Guen. Delt. et Pyral.* 132.

Body slender. Ocelli obsolete. Proboscis none. Palpi curved, ascending; joints distinct; third long, linear. Maxillary palpi rudimentary. Antennæ granulated; joints alternately with tufted setæ and with pairs of setæ. Abdomen thick. Wings entire, rounded at the tips. Fore wings clouded, dull; lines confused. Hind wings without markings.

1. HYPSOPYGIA EGREGIALIS.

Albida; alæ anticæ usque ad lineam exteriorem fuscescentes, linea exteriore marginem versus croceo-cincta discum versus indeterminate effusa.

Hypsopygia egregialis, *Herr.-Schæff. Eur. Schm*, iv. 120, 3, pl. 8, f. 55. *Guen. Delt. et Pyral.* 133, 34.

Sicily.

Genus 7. CARCHA.

Fœm. Corpus sat robustum. Proboscis brevis. Palpi breves, porrecti, obtusi; articulus 3us minutus, quasi truncatus. Antennæ graciles, nudæ, corporis dimidio valde longiores. Abdomen alas posticas non superans. Pedes validi; tibiæ anticæ bifasciculatæ; tarsi antici dilatati. Alæ anticæ apice rotundatæ, margine exteriore vix obliquo, margine interiore subemarginato.

Female. Body moderately stout. Proboscis short. Palpi short, porrect, obtuse; third joint minute, apparently truncated. Antennæ slender, bare, much more than half the length of the body. Abdomen not extending beyond the hind wings. Legs stout, moderately long; fore tibiæ with two dense tufts; fore tarsi somewhat dilated. Wings moderately broad. Fore wings rounded at the tips; exterior border very slightly oblique; interior border slightly emarginate.

The only species of *Carcha* much resembles *Pyralis farinalis* in the markings of the fore wings, but the structure of the palpi and of the fore legs are sufficient to distinguish it as a new genus.

1. Carcha Hersilialis.

Fœm. *Rufescente-fusca, subtus cinereo-fusca; tibiæ anticæ fasciculis duobus nigricantibus; tarsi antici albi; alæ anticæ fascia media lata pallide rufescente albo marginata intus subconcava extus subconvexa, linea marginali pallida; posticæ cinereo-fuscæ.*

Female. Reddish brown, cinereous-brown beneath. Fore tibiæ with two blackish tufts. Fore tarsi white. Fore wings with a broad pale reddish middle band, which is bordered with white and is slightly concave on the inner side, and slightly convex on the outer side; marginal line, pale, slender. Hind wings cinereous-brown. Length of the body 2½ lines; of the wings 7 lines.

a. St. Domingo. From Mr. Tweedie's collection.

Genus 8. CARDAMYLA.

Mas. Corpus robustum. Proboscis valida, brevis. Palpi ongiusculi, erecti; articulus 2us subarcuatus; 3us subfusiformis, 2i dimidio brevior. Antennæ validæ, subpubescentes; articulus basalis incrassatus. Abdomen subcylindricum, alas posticas vix superans; fasciculus apicalis sat magnus. Pedes robusti, squamosi, calcaribus longissimis. Alæ anticæ subrotundatæ; posticæ luteæ.

Male. Body stout, squamous. Proboscis robust, short. Palpi rather long, vertical, pilose, not compressed, rising above the head; second joint slightly curved; third subfusiform, less than half the length of the second. Antennæ stout, minutely pubescent; basal joint incrassated. Abdomen nearly cylindrical, hardly extending beyond the hind wings; apical tuft rather large. Legs robust, squamous; spurs very long; fore tibiæ with an appendage beneath towards the base. Wings moderately broad. Fore wings somewhat rounded at the tips; costa slightly convex towards the base; exterior border slightly convex, moderately oblique. Hind wings mostly luteous.

1. Cardamyla Carinentalis.

Mas. *Nigra; caput et thorax lutea, nigro varia; abdomen luteo alboque fasciatum; pedes albo fasciati, femoribus luteo vittatis; alæ anticæ lineis tribus undulatis venisque albidis, fascia media pallide virdi maculam nigram includente, subtus ochraceæ apice nigræ; posticæ læte ochraceæ, macula margineque nigris.*

Male Black. Head and thorax luteous, partly black. Abdomen with luteous and white bands, the latter colour predominating beneath; apical tuft pale testaceous, with black plumes towards the base. Legs with white bands; femora with luteous stripes; fore coxæ with white lines. Fore wings with whitish veins, and with three undulating whitish lines; first line basal; second and third widely separated; a pale green intermediate band, abbreviated by the costa, including a nearly round black spot; under side orange, with one discal and two costal black spots; exterior part black, including a curved orange line. Hind wings bright orange, with a black hindward spot and a black marginal band which is widened in front. Length of the body 6½—7 lines; of the wings 16—17 lines.

a, *b*. Australia. From Mr. Damel's collection.
c. Richmond River, Australia. From Mr. Leycester's collection.

2. CARDAMYLA DIDYMALIS.

Fœm. *Cinerea; caput pallide luteum; palporum articulus 3us lanceolatus; abdomen e maculis nigris trivittatum, subtus albo nigroque fasciatum; pedes nigricante fasciati; alæ fasciis duabus diffusis nigricantibus lineas duas cinereas valde denticulatas includentibus, guttis marginalibus subquadratis nigris, anticæ macula discali nigra; posticæ antice et apud marginem interiorem luteæ.*

Female. Cinereous. Head pale luteous. Third joint of the palpi lanceolate. Abdomen with three rows of black spots; under side with alternate black and white bands. Legs with blackish bands. Wings with two diffuse blackish bands, each of which contains a much denticulated cinereous line; marginal dots black, subquadrate. Fore wings with a black discal spot. Hind wings luteous in front except towards the tips and along the interior border, which is furnished with long hairs. Wings beneath luteous, with a discal spot, an incomplete band, and an apical patch blackish. Length of the body 5½ lines; of the wings 14 lines.

This may be proved to be the female of the preceding species.

a, *b*. Moreton Bay. Presented by — Gibbons, Esq.

Genus 9. LABANDA.

Mas. Corpus sat robustum. Vertex planus, prominens. Proboscis non conspicua. Palpi compressi, longiusculi, subarcuati, oblique ascendentes; articulus 3us linearis, apice obtusus, 2o brevior. Palpi maxillares obsoleti. Antennæ longiusculæ, submoniliformes, subfiliformes, subsetosæ. Abdomen subcarinatum, valde attenuatum, basi cristatum, alas posticas longe superans, valvulis duabus apicalibus lateralibus longis. Pedes squamosi, sat validi, calcaribus longissimis. Alæ sat angustæ; anticæ subrotundatæ, apud costam subconvexæ, margine exteriore sat obliquo.

Male. Body moderately stout. Vertex forming a conical flat somewhat raised tablet, which projects a little above the base of the antennæ. Proboscis obsolete or nearly so. Palpi compressed, rather long, slightly curved, obliquely ascending; third joint linear, obtuse at the tip, rather shorter than the second. Maxillary palpi obsolete. Antennæ submoniliform, nearly filiform, minutely setose, rather long. Abdomen much attenuated, slightly keeled, crested at the base, extending for nearly half its length beyond the hind wings, with a clavate appendage above at its tip, which is furnished with two long lateral valves. Legs squamous, rather stout, moderately long; spurs very long. Wings rather narrow. Fore wings slightly rounded at the tips, slightly convex along the costa and along the exterior border, which is rather oblique.

This genus is somewhat abnormal and hardly associated with any of the established families of its tribe, but is apparently most allied to the *Pyralidæ*.

1. Labanda herbealis.

Mas. *Fusca, subtus testacea; thorax viridi conspersus; alæ anticæ lineis viridibus angulosis diffusis, subtus cinereo-fuscæ; posticæ cinereo-fuscæ, subtus pallide testaceæ fasciis duabus cinereo-fuscis.*

Male. Brown, testaceous beneath. Thorax speckled with green. Abdomen brownish cinereous; apical valves whitish testaceous. Fore wings with several zigzag diffuse green lines; fringe green, interlined with blackish brown; under side cinereous-brown, testaceous along the exterior border, which is black. Hind wings cinereous-brown, with a pale marginal line; under side pale testaceous, with two cinereous-brown bands; the exterior band broad,

extending to the exterior border, where it contains a denticulated pale line. Length of the body 6 lines; of the wings 11 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Genus 10. DOTHTHA.

Mas. Corpus sat gracile. Proboscis brevis. Palpi breves, erecti; articulus 3us minimus. Palpi maxillares non conspicui. Antennæ subserratæ, subsetosæ; articulus 1us basi cornutus. Thoracis tegulæ longissimæ, pilis dilatatis. Abdomen alas posticas superans; fasciculus apicalis magnus. Pedes graciles, longiusculi, calcaribus longis. Alæ anticæ acutæ, margine exteriore sat obliquo.

Male. Body rather slender. Proboscis short. Palpi short, vertical, applied close to the head; third joint very small. Maxillary palpi not visible. Antennæ indistinctly serrated, minutely setose; first joint with an appendage at the tip. Tegulæ of the thorax very long; their plumes dilated. Abdomen extending somewhat beyond the hind wings; apical tuft large, diverging on each side. Legs slender, rather long; spurs long. Wings moderately broad. Fore wings acute; exterior border rather oblique.

1. DOTHTHA MESENTERIALIS.

Mas. *Purpurascente-rufa; abdomen apice testaceum; pedes testacei, antici fusci; alæ fascia lata vix undulata lutea, punctis marginalibus nigris, lineis subtus duabus duplicatis denticulatis nigricantibus; anticæ fascia subtus indistincta submarginali nigra et flavescente.*

Male. Purplish red. Abdomen towards the tip and legs testaceous. Fore legs brown. Wings with a broad hardly undulating luteous band, which is bordered on each side beneath by a double blackish denticulated line; marginal points black, larger beneath. Fore wings beneath with an indistinct submarginal black and yellowish band. Length of the body 4 lines; of the wings 8 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

Fam. 2. CLEDEOBIDÆ.

Corpus longum, gracile. Ocelli duo, distincti. Proboscis distincta, basi squamosa. Palpi porrecti, recti aut incumbentes, nunquam ascendentes, thorace non breviores; articulus 3us apice squamoso-hirsutus. Palpi maxillares distincti. Antennæ maris sæpissime pectinatæ. Abdomen alas posticas longe superans, maris cylindricum apice quadratum, fœm. oviductu terebriformi. Pedes longissimi. Alæ angustæ; anticæ strigis costalibus albis.

Cledeobidæ, *Dup. Cat.* 209; *Steph.*; *Guen. Delt. et Pyral.* 134.
Pyralides, *Herr.-Schæff.*

Body long, slender. Two distinct ocelli. Proboscis distinct, squamous at the base. Palpi porrect, straight or incumbent, never ascending, as long as or longer than the thorax; third joint squamous-hirsute at the tip. Maxillary palpi distinct. Antennæ of the male generally pectinated. Abdomen extending far beyond the hind wings, cylindrical, and with a quadrate tip in the male, often furnished with a terebriform oviduct in the female. Legs very long. Wings narrow. Fore wings with white costal streaks.

A. Antennæ maris pectinatæ. - - 2. CLEDEOBIA, *Steph.*
B. Antennæ maris non pectinatæ.
A. Antennæ maris setosæ. - - 1. ACTENIA, *Guen.*
B. Antennæ maris fasciculato setosæ. - 3. EURRHYPIS, *Hübn.*

Genus 1. ACTENIA.

Corpus gracile. Proboscis brevissima, squamosa. Palpi incumbentes, lævi-squamosæ, apice acutæ, thorace non longiores, articulus indistinctis. Palpi maxillares pilis frontalibus occulti. Antennæ maris setosæ. Abdomen maris cylindricum apice quadratum, fœm. oviductu nullo conspicuo. Alæ integræ; anticæ subtrigonæ, apice elongatæ, linea media punctoque discali distinctis; posticæ lituris nullis.

Synaphe, p., *Hübn. Verz. Schm.* 347.
Pyralis, p., *Treit.*; *Herr.-Schæff.*
Cledeobia, p., *Dup.*
Actenia, *Guen. Delt. et Pyral.* 134.

Body slender. Proboscis squamous, very short. Palpi incumbent, smoothly squamous, acute at the tips, not longer than the

thorax; joints indistinct. Maxillary palpi not distinguishable from the frontal tuft, which is covered with coarse incumbent hairs. Antennæ of the male simply setose. Abdomen cylindrical and with a quadrate tip in the male, without any apparent oviduct in the female. Wings entire. Fore wings nearly triangular, elongate at the tips, with the middle line and the discal point distinct. Hind wings without any markings.

1. Actenia Borgialis.

Violacco-fusca; alæ anticæ lineis interiore et exteriore marginem interiorem versus convergentibus, punctis marginalibus et disco inter venas albidis, puncto discali fusco, linea interiore dentata; posticæ albidæ, lunula obscuriore.

Cledeobia Borgialis, *Dup. Lép.* 302, pl. 230, f. 4.
Pyralis Borgialis, *Herr.-Schæff. Eur. Schm.* iv. 125, 19.
Actenia Borgialis, *Guen. Delt. et Pyral.* 135, 35.

South France. Sicily.

2. Actenia brunnealis.

Fusco-cinerea; alæ anticæ lineis interiore et exteriore pallidis, hac subrecta fusco late adumbrata, illa flexuosa indeterminate fusco adumbrata.

Pyralis comparalis (glaucinalis, texte err.), *Hübn. Pyral.* pl. 19, f. 126.
Pyralis brunnealis, *Treit. Schm.* vii. 48, 7. *Herr.-Schæff. Eur. Schm.* iv. 125, 20.
Cledeobia brunnealis, *Dup. Lép.* 82, pl. 4, f. 6.
Actenia brunnealis, *Guen. Delt. et Pyral.* 135, 36.
Synaphe comparalis, *Hübn. Verz. Schm.* 347, 3327.

South France. Austria. Italy.

3. Actenia honestalis.

Rubente-ochracea, subvirens; alæ anticæ lineis interiore et exteriore tenue pallidis lateribus inversis tenue fusco adumbratis hac obtuse angulata, illa sinuata.

Pyralis honestalis, *Treit. Schm.* vii. 49, 8. *Fisch.-Rosl.* 9, pl. 6, f. 1. *Herr.-Schæff.* iv. 125, 21.

Actenia honestalis, *Guen. Delt. et Pyral.* 135, 37.

Hungary.

Genus 2. CLEDEOBIA.

Corpus gracile. Fasciculus frontalis longissimus. Proboscis brevis. Palpi porrecti, pilosi, thorace paullo breviores; articulus 3us lanceolatus, 2i triente non longior. Antennæ corporis dimidio longiores. Abdomen alas posticas sat superans. Pedes longissimi, gracillimi; tibiæ posticæ calcaribus longis. Alæ angustæ, fimbria lata; anticæ apice subrotundatæ. *Mas.*—Antennæ subpectinatæ.

Pyralis, p., *Treit.*; *Herr.-Schæff.*
Cledeobia, *Steph. Cat.* 159; *Dup.*; *Guen. Delt. et Pyral.* 136.
Synaphe, p., *Hübn. Verz. Schm.* 347; *Steph. Ill. Brit. Haust.* iv.

Body slender. Frontal tuft very long. Proboscis short. Palpi porrect, pilose, a little shorter than the thorax; third joint lanceolate, hardly one-third of the length of the second. Antennæ more than half the length of the body. Abdomen extending somewhat beyond the hind wings. Legs very long and slender; hind tibiæ with long spurs. Wings narrow; fringe broad. Fore wings somewhat rounded at the tips; exterior side moderately oblique, very slightly convex. *Male.*—Antennæ subpectinated. *Female.*—Antennæ simple.

A. Antennæ non late pectinatæ.
  A. Alæ anticæ non nigricantes.
    a. Alæ anticæ albidæ. - - - connectalis, *Hübn.*
      a. Alæ posticæ nigræ. - - - Palermitalis, *Guen.*
      b. Alæ posticæ nigro-cinereæ. - - lorquinalis, *Guen.*
      c. Alæ posticæ pallidiores.
        i. Alæ fasciatæ - - - - aberralis, *Guen.*
        ii. Alæ non fasciatæ.
          * Alæ posticæ vittatæ. - provincialis, *Dup.*
          ** Alæ posticæ non vittatæ.
            † Alæ anticæ linea interiore e lunulis. bombycalis, *Wien. Verz.*
            †† Alæ anticæ linea interiore non lunulata.
              ‡ Alæ anticæ nebulosæ. - netricalis, *Hübn.*
              ‡‡ Alæ anticæ non nebulosæ
                § Alæ anticæ obscuriores. angustalis, *Wien. Verz.*
                §§ Alæ anticæ pallidiores. luridalis, *Fisch.*
  B. Alæ anticæ nigricantes.
    a. Alæ posticæ non lineatæ. - - diffidalis, *Guen.*
    b. Alæ posticæ unilineatæ. - - - Castillalis, *Guen.*

B. Antennæ maris late pectinatæ.
A. Alæ anticæ non vittatæ. - - massilialis, *Dup.*
B. Alæ anticæ vittatæ. - - pectinalis, *Herr.-Schæff.*

1. CLEDEOBIA ANGUSTALIS.

Cervina aut cervino-fusca ; alæ anticæ punctis marginalibus albidis, linea exteriore pallida undulata obliqua ; posticæ cinereæ ; alæ subtus linea pallida bene determinata.

Pyralis angustalis, *Wien. Verz.* 120, 7. *Hübn. Pyral.* pl. 4, f. 21. *Ill. Auss.* ii. 7, 7. *Treit. Schm.* vii. 46, 6. *Herr.-Schæff. Eur. Schm.* iv. 126, 23.
Phalæna erigalis, *Fabr. Ent. Syst.* iii. 2, 237, 408.
Phalæna curtalis, *Fabr. Ent. Syst.* iii. 2, 257, 409.
Phalæna-Pyralis curtalis, *Gmel. ed. Syst. Nat.* i. 5, 2525, 950.
Crambus erigatus, *Fabr. Suppl.* 469, 30. *Coqueb. Ill.* pl. 17.
Pyralis curtalis, *Wien. Verz.* 120, 8. *Ill. Auss.* ii. 8, 8.
Pyralis angustalis, *Hubn. Pyral.* pl. 19, f 123.
Crambus bombycatus, *Haw. Lep. Brit.* 368.
Crambus angustatus, *Haw. Lep. Brit.* 368.
Synaphe bombycalis, *Hübn. Verz. Schm.* 347, 3324.
Cledeobia angustalis, *Steph. Cat.* 159, 6768. *Dup. Lép.* 78, pl. 214, f. 4 ; 235, f. 8. *Guen. Delt. et Pyral.* 137, 38.
Synaphe angustalis, *Steph. Ill. Brit. Haust.* iv. 19.

a, b. England. From Mr. Chant's collection.
c—m. England. From Mr. Stephens' collection.
n—p. England.
q, r. Europe. From M. Becker's collection.

2. CLEDEOBIA LORQUINALIS.

Rufescente-testacea, fusco conspersa ; palpi thorace longiores, articulo 3o lineari aciculari ; alæ anticæ spatio marginali obscuriore linea pallida sinuata marginato, gutta discali obscura nebulosa, linea costali fusca strigis pallidis interrupta ; posticæ nigricante-cinereæ.

Cledeobia lorquinalis, *Guen. Delt. et Pyral.* 138, 40.

Andalusia.

3. CLEDEOBIA LURIDALIS.

Ochracea ; alæ linea interiore denticulata. Mas.—*Alæ posticæ fusco-cinereæ.*

Pyralis luridalis, *Fisch.-Rosl.* 267, pl. 90, f. 3. *Herr.-Schæff. Eur. Schm.* iv. 126, 24.
Cledeobia luridalis, *Guen. Delt. et Pyral.* 139, 41.
Sarepta. Casan.

4. CLEDEOBIA CONNECTALIS.

Albida, fusco irrorata; alæ apud lineam interiorem albam fuscæ; anticæ lunula discali fusca; posticæ dimidio basali albido.

Pyralis connectalis, *Hübn. Pyral.* pl. 14, f. 91. *Treit. Schm.* vii. 51, 9. *Herr.-Schæff. Eur. Schm.* iv. 126, 25.
Synaphe connectalis, *Hübn. Verz. Schm.* 347, 3323.
Cledeobia connectalis, *Guen. Delt. et Pyral.* 139, 42.
Hungary.

5. CLEDEOBIA BOMBYCALIS.

Ochracea; alæ anticæ linea interiore e lunulis subæqualibus composita; posticæ extus obscuriores.

Pyralis bombycalis, *Wien. Verz.* 120, 6. *Hübn. Pyral.* pl. 4, f. 20, 124. *Ill. Auss.* ii. 7, 6; *Mag.* iv. 3, 6. *Treit. Schm.* vii. 43, 4. *Eversm. Faun. Ural.* 450. *Herr.-Schæff. Eur. Schm.* iv. 124, 17.
Phalæna bombycalis, *Fabr. Mant. Ins.* ii. 216, 268; *Ent. Syst.* iii. 2, 220, 341.
Phalæna-Pyralis bombycalis, *Gmel. ed. Syst. Nat.* i. 5, 2519, 914.
Phalæna antennalis? *Fabr. Ent. Syst.* iii. 2, 339.
Bombyx austriaca, *Esp. Schm.* iii. pl. 86, f. 2.
Synaphe bombycalis, *Hübn. Verz. Schm.* 347, 3321.
Cledeobia bombycalis, *Dup. Lep.* 300, pl. 230, f. 3. *Guen. Delt. et Pyral.* 139, 44.
South and East Europe.

6. CLEDEOBIA NETRICALIS.

Ochraceo fuscoque nebulosa; alæ linea interiore dentata, litura discali obscuro, punctis marginalibus nigris.

Pyralis netricalis, *Hübn. Pyral.* f. 158. *Treit. Schm.* vii. 45, 5. *Eversm. Faun. Volg. Ural.* 451. *Herr.-Schæff. Eur. Schm.* iv. 124, 16, pl. 1, f. 4.

6. Cledeobia netricalis.

Ochraceo fuscoque nebulosa; alæ linea interiore dentata, litura discali obscura, punctis marginalibus nigris.

Pyralis netricalis, *Hübn. Pyral.* pl. 24, f. 158. *Treit. Schm.* vii. 45, 5. *Eversm. Faun. Volg.-Ural.* 451. *Herr.-Schæff. Eur. Schm.* iv. 124, 16, pl. 1, f. 4.
Bombyx Moldavica, *Esp. Schm.* iii. pl. 86, f. 1.
Synaphe netricalis, *Hübn. Verz. Schm.* 347, 3322.
Cledeobia græcalis, *Dup. Lép.* 76, pl. 214, f. 1.
Cledeobia Moldavicalis, *Dup. Suppl.* 397, pl. 82, f. 5.
Cledeobia netricalis, *Guen. Delt. et Pyral.*. 140, 45.

Italy. Dalmatia. Sardinia. Sicily. Spain. Greece. Turkey.

7. Cledeobia Palermitalis.

C. netricali *simillima; alæ anticæ saturatiores unicolores, lineis valde concisis, linea basali arcuata vix angulata, lineæ exterioris flexura valde rotundata; posticæ nigræ, fascia media rufescente-alba; abdomen nigricans, fusco conspersum.*

Cledeobia Palermitalis, *Guen. Delt. et Pyral.* 141, 46.

Palermo.

8. Cledeobia aberralis.

Mas. *Ochraceo-flava, vix rufescens; alæ venis nigricante conspersis, fascia lata, fimbria lineaque marginali vuga nigricantibus; anticæ fascia costam versus ochraceo conspersa postice constricta et divisa; posticæ fascia e macula basali trigona.* Fœm.—*Pallidior, lituris bene determinatis.*

Cledeobia aberralis, *Guen. Delt. et Pyral.* 141, 47.

Madrid

9. Cledeobia diffidalis.

Mas.—*Nigra*, C. netricali *affinis; antennæ albo-squamosæ; alæ anticæ cervino conspersæ, lineïs duabus latis vagis, spatio medio nigro, fimbria media alba; posticæ unicolores, linea*

media concisa fimbriaque albis. Fœm.—*Alæ anticæ pallidissime ochraceæ, lineis duabus punctoque discali nigro conspersis; posticæ albidæ, atomis nigris.*

Cledeobia diffidalis, *Guen. Delt. et Pyral.* 142, 48.

Andalusia.

10. CLEDEOBIA PROVINCIALIS.

Fuscescens; alæ lineis interiore et exteriore pallidioribus, hac in angulum rectum fracta, illa apud alas posticas in angulum obtusum fracta; anticæ vittis duabus abbreviatis, 2a interrupta.

Cledeobia netricalis, *Dup. Lép.* 72, pl. 214, f. 2.

Cledeobia provincialis, *Dup. Lép.* 74, pl. 214, f. 3. *Guen. Delt. et Pyral.* 142, 49.

Pyralis provincialis, *Herr.-Schæff. Eur. Schm.* iv. 124, 18.

Digne.

11. CLEDEOBIA CASTILLALIS.

Mas. *Nigro-cinerea; palpi tenues, acuti; antennæ albo squamosæ; alæ nitentes, lituris fimbriaque albis; anticæ lineis duabus concisis sat latis, 1a arcuata, 2a sinuata dentes duas latas intus emittente, spatio medio apud costam pallide olivaceo, lituris costalibus plurimis albis; posticæ unicolores, linea unica angusta.*

Cledeobia castillalis, *Guen. Delt. et Pyral.* 143, 50.

Madrid.

12. CLEDEOBIA MASSILIALIS.

Fuscescens; alæ anticæ lineis interiore et exteriore acute fractis, macula apud angulum interiorem et altera discali argenteo-albis.

Cledeobia massilialis, *Dup. Lép.* 304, pl. 230, f. 5. *Guen. Delt. et Pyral.* 143, 51.

Pyralis massilialis, *Fisch.-Rosl.* 265, pl. 90, f. 2. *Herr.-Schæff. Schm.* iv. 127, 28.

South France. South Russia.

13. CLEDEOBIA? PECTINALIS.

Subcarnea, fusco adumbrata; alæ anticæ vittis duabus interruptis fuscis, lineis interiore et exteriore pallidis; posticæ albæ.

Pyralis pectinalis, *Herr.-Schæff. Schm.* iv. 127, 27, pl. 8, f. 50.
Cledeobia? pectinalis, *Guen. Delt. et Pyral.* 144, 52.

Sicily.

Africa.

14. CLEDEOBIA INTERJUNCTALIS.

Statura C. connectalis *vel major; alæ albido-cervinæ; anticæ costa albo strigata lineisque duabus dilutioribus fusco adumbratis; posticæ linea unica.*

Cledeobia morbidalis, *Guen. Explor. Scient. de l'Alger. Anim. Artic.* iii. 398, 150; *Delt. et Pyral.* 138, 39.

Algiers.

15. CLEDEOBIA MORBIDALIS.

Statura C. angustalis; *antennæ valde ciliatæ, ochraceo-albæ; alæ anticæ ochraceo-flavæ, lineis duabus albidis medio fere anastomosantibus, puncto areolari maculisque costalibus saturatis; posticæ albidæ, linea arcuata obscuriore.*

Cledeobia morbidalis, *Guen. Explor. Scient. de l'Alger. Anim. Artic.* iii. 398, 151, pl. 4, f. 5; *Delt. et Pyral.* 139, 43.

Algiers.

Genus 3. EURRHYPIS.

Corpus robustum, dense pilosum. Frons villosa. Palpi porrecti, approximati, validi, pilosi, thorace breviores; articulus 3us lanceolatus, 2i dimidio non longior. Palpi maxillares occulti. Thorax latus. Abdomen alas posticas superans, fasciculis lateralibus. Pedes validi, villosi, calcaribus longissimis. Alæ robustæ, squamosæ, integræ; anticæ apice subrotundatæ. *Mas.*—Antennæ subpectinatæ, setis apice fasciculatis.

Eurrhypis, *Geyer, Zutr.; Guen. Delt. et Pyral.* 144.

Body stout, thickly clothed. Front villose. Palpi porrect, approximate, stout, pilose, slightly decumbent, shorter than the thorax; third joint lanceolate, not more than half the length of the second. Maxillary palpi hidden by the hairs of the labial palpi. Thorax broad. Abdomen with lateral tufts, extending beyond the hind wings. Legs stout, villose; spurs very long. Wings stout, squamous, entire, moderately broad. Fore wings slightly rounded at the tips, convex and moderately oblique along the exterior border. *Male.*—Antennæ slightly pectinated; their setæ tufted at the tips. Abdomen furnished at the tip with two diverging lateral tufts.

1. EURRHYPIS PERTUSALIS.

Fœm. *Nigra; alæ fascia media lata subfusiformi angulosa albo-hyalina; anticæ linea interiore alba.*

Eurrhypis pertusalis (Pyralis vulgaris, Palpita nobilis), *Geyer, Zutr. Samml. Exot. Schmett.* 36, 382, f. 763, 764.

Pyralis pertusalis, *Herr.-Schæff. Eur. Schm.* iv. 127, pl. 6, f. 35—37, *Guen. Delt. et Pyral.* 144, 53.

Greece. Turkey. Asia Minor.

a. Europe. From Dr. Frivaldsky's collection.

Sub-tribe 3. LURIDÆ.

A. Statura parva. Alæ subtus lituris bene determinatis.
  A. Aspectus noctuiformis. Abdomen pilosum. Alæ coloribus caliginosis et nebulosis. Fam. 1. HERCYNIDÆ, *Duponch.*
  B. Aspectus pyraliformis. Abdomen glabrum, acutum. Alæ coloribus lætis, concisis. Fam. 2. ENNYCHIDÆ, *Duponch.*
B. Statura varia. Alæ subtus lituris nullis aut inconspicuis.
  A. Statura parva. Palpi quatuor conspicui.
    A. Larva terrestris.
      a. Palpi non rostriformes. Fam. 3. ASOPIDÆ, *Guen.*
      b. Palpi rostriformes. Fam. 4. STENIADÆ, *Guen.*
    B. Larva aquatica. Proboscis brevis. Fam. 5. HYDROCAMPIDÆ, *Guen.*
  B. Statura sæpissime mediocris aut magna. Palpi varii. Proboscis bene determinata.
    A. Alæ lineis nullis aut inconspicuis.

a. Palpi labiales tantum conspicui.
Fam. 6. SPILOMELIDÆ, *Guen.*
b. Palpi quatuor conspicui, rostrum fingentes. Penicillum anale sæpe discolor. - Fam. 7. MARGARODIDÆ, *Guen.*
B. Alæ lineis ordinariis. Penicillum anale concolor aut nullum. - - - - Fam. BOTYIDÆ, *Guen.*

Fam. 1. HERCYNIDÆ.

Corpus robustum, plus minusve villosum. Caput parvum. Vertex sæpe perangustus. Ocelli duo conspicui, magni. Proboscis distincta. Palpi breves, recti aut vix arcuati, hirsuti aut squamosi. Palpi maxillares sæpe conspicui. Antennæ cylindricæ, filiformes, nunquam pectinatæ. Thorax rotundatus. Abdomen crassum. Alæ integræ, rotundatæ, densæ, plus minusve pulverulentæ.

Hercynidæ, *Dup. Cat.* 195; *Guen. Delt. et Pyral.* 147.

Body stout. Head small. Vertex often very narrow. Ocelli two, large, conspicuous, near the antennæ. Proboscis distinct. Palpi short, straight or hardly curved, hirsute or squamous. Maxillary palpi often very distinct. Antennæ cylindrical, filiform, never pectinated. Thorax rounded. Abdomen thick. Wings robust, entire, rounded, more or less pulverulent.

A. Proboscis nulla. - - - 2. NOCTUOMORPHA, *Guen.*
B. Proboscis brevissima. - - - - 4. HERCYNA, *Treit.*
C. Proboscis conspicua.
A. Palpi rostriformes. - - - 5. BOREOPHILA, *Guen.*
B. Palpi non rostriformes.
A. Palpi non hirsuti. - - - 3. HELIOTHELA, *Guen.*
B. Palpi hirsuti.
a. Palpi articulo 3o non truncato.
i. Antennæ robustæ. - - 1. THRENODES, *Dup.*
ii. Antennæ graciles. - - - 6. ORENAIA, *Dup.*
b. Palpi articulo 3o truncato. - 7. APORODES, *Guen.*

Genus 1. THRENODES.

Corpus sat gracile. Proboscis mediocris. Palporum articulus 2us trigonus, hirsutus; 3us distinctus, conicus. Palpi maxillares breviores, conici, non hirsuti. Antennæ robustæ, subpubescentes, articulis plurimis. Thorax amplus. Abdomen maris cylindricum. Pedes antici femoribus tibiisque valde villosis. Alæ rotundatæ, pulverulentæ, concolores, lituris non diversis.

Eurrhypis, *Hübn. Verz. Schm.* 351.
Threnodes, *Dup. Cat.* 496. *Guen. Delt. et Pyral.* 148.
Hercyna, p., *Herr.-Schæff.*

Body rather slender. Proboscis moderately long. Palpi with the second joint triangular, hirsute; third distinct, conical. Maxillary palpi conical, not hirsute, one-third shorter than the labial palpi. Antennæ stout, very finely pubescent, with numerous joints. Thorax large. Abdomen of the male cylindrical. Fore femora and fore tibiæ thickly pilose. Wings rounded, pulvérulent, alike in colour and with like markings.

1. THRENODES POLLINALIS.

Nigra; alæ maculis duabus albis; anticæ lineola basali alba.

Pyralis pollinalis, *Wien. Verz.* 124, 44. *Brahm, Ins.* ii. 1, 282, 274. *Illig. Auss.* ii. 30, 44; *Mag.* iv. 7, 44. *Hübn. Pyral.* pl. 5, f. 29. *Fuessl. N. Mag.* iii. 147, 46.
Noctua bigutta, *Schæff. Icon.* pl. 275, f. 5, 6. *Esp. Schm.* pl. 163, f. 5.
Orenaia pollinalis, *Dup. Lép.* 250, pl. 226, f. 5. *Herr.-Schæff. Eur. Schm.* iv. 16, 26.
Hercyna pollinalis, *Treit. Schm.* vii. 202, 8.
Phalæna pollinalis, *Fabr. Mant. Ins.* ii. 324, 224; *Ent. Syst.* iii. 2, 241, 423.
Phalæna-Pyralis pollinalis, *Gmel. ed. Syst. Nat.* i. 5, 2527, 960.
Eurrhypis pollinalis, *Hübn. Verz. Schm.* 351, 3357.
Threnodes pollinalis, *Guen. Delt. et Pyral.* 149, 54.

Europe.

2. THRENODES GUTTULALIS.

Nigra; abdomen albo fasciatum; alæ fimbria alba; anticæ strigis duabus transversis (postica brevi) albis, fimbria nigro binotata; posticæ basi albidæ, striga angulum versus interiorem alba.

Hercyna guttulalis, *Herr.-Schæff. Eur. Schm.* iv. 16, 25, pl. 14, f. 96, 97.
Threnodes guttulalis, *Guen. Delt. et Pyral.* 149, 55.
South France. Italy.

3. Threnodes sartalis.

T. guttulali *affinis, subtus alba margine interiore nigricante; alæ anticæ flavo-fuscæ, fimbria concolori.*

Pyralis sartalis, *Hübn. Pyral. f.* 173, 174.
Eurrhypis sartalis, *Hübn. Verz. Schm.* 351, 3358.
Threnodes sartalis, *Guen. Delt. et Pyral.* 150, 56.
Europe.

4. Threnodes cacuminalis.

Nigra; abdomen albo fasciatum; alæ lineis undulatis glaucis, linea media dentata alba, fimbria alba nigro uninotata; anticæ striga basali lineaque submarginali abbreviata albis; posticæ guttâ submarginali alba.

Hercyna cacuminalis, *Eversm. Bull. Mosc.* 1843; *Faun. Volg.-Ural.* 476. *Herr.-Schæff. Eur. Schm.* iv. 17, 28, pl. 5, f. 26 27.
Threnodes cacuminalis, *Guen. Delt. et Pyral.* 150, 57.
Ural Region.

Genus 2. NOCTUOMORPHA.

Corpus sat robustum. Frons prominens. Ocelli valde conspicui. Proboscis obsoleta. Palpi porrecti, non longi, subtus hirsuti. Palpi maxillares vix conspicui. Antennæ breves. Pedes longi, femoribus anticis tibiisque intermediis villosis. Alæ dense vestitæ, valde rotundatæ, fimbria lata; anticæ costa subtus sulcata. *Mas.*—Antennæ pubescentes. Abdomen cylindricum, obtusum, alas posticas non superans. *Fœm.*—Abdomen amplum, tumidum, alas posticas paullo superans, apice compressum peracutum.

Titanio, *Hubn. Verz. Schm.* 350.
Noctuomorpha, *Guen. Delt. et Pyral.* 150.
Hercyna, *Treit.*; *Herr.-Schæff.*
Microphysa, *Dup.*

Body rather stout. Front prominent. Ocelli very distinct. Proboscis obsolete. Palpi porrect, not long, hirsute beneath with long hairs. Maxillary palpi rudimentary. Antennæ short. Legs long; fore femora and middle tibiæ villose. Wings moderately broad, thickly clothed, much rounded; fringe broad. Fore wings with a furrow along the costa on the under side. *Male.*—Antennæ pubescent. Abdomen cylindrical, obtuse, not extending beyond the hind wings. *Female.*—Abdomen large, tumid, extending a little beyond the hind wings, ending in a compressed very acute tip.

1. NOCTUOMORPHA NORMALIS.

Fusca; alæ anticæ costa lineaque submarginali denticulata diffusa pallidioribus, linea media dislocata albida nigro ex parte marginata; posticæ nigro-fuscæ, fascia media albida antice dilatata postice abbreviata, fascia exteriore late interrupta testacea.

Pyralis normalis, *Hubn. Pyral.* pl. 7, f. 41; pl. 17, 110.
Pyralis comitalis, *Hubn. Pyral.* f. 180.
Titanio normalis et comitalis, *Hubn. Verz. Schm.* 350, 3347, 3348.
Hercyna normalis, *Treit. Schm.* vii. 175, 9. *Dup. Lép.* 382, pl. 225, f. 7. *Herr.-Schæff. Eur. Schm.* iv. 16, 27, pl. 14, f. 98.
Noctuomorpha normalis, *Guen. Delt. et Pyral.* 151, 58.

a, b. Europe. From M. Becker's collection.

Genus 3. HELIOTHELA.

Corpus gracile. Frons plana. Ocelli distincti. Proboscis longa, robusta. Palpi squamosi, non villosi; articuli 2us et 3us securiformes, hic parvus. Palpi maxillares securiformes, remoti, valde distincti. Antennæ breves, cylindricæ, velutinæ, non setosæ. Abdomen conicum, acuminatum. Pedes mediocres, non villosi; femora antica squamosa. Alæ nitentes, concolores, lituris non diversis; anticæ margine exteriore subquadrato.

Perilypa, *Hubn. Verz. Schm.* 372.
Hercyna, p. *Treit.; Herr.-Schæff.*
Threnodes, p. *Dup.*
Heliothela, *Guen. Delt. et Pyral.* 152.

Body slender. Front flat. Ocelli distinct. Proboscis long, stout. Labial and maxillary palpi squamous, not villose, very distinct and very isolated. Second and third joints of the labial palpi securiform, the latter much smaller than the former. Maxillary palpi securiform. Antennæ short, cylindrical, downy, not setose. Abdomen conical, acuminated. Legs of moderate length, not villose; fore femora squamous. Wings shining, alike in colour and with like markings. Fore wings with the exterior border subquadrate.

1. HELIOTHELA ATRALIS.

Fusca; alæ fimbria apicem versus alba, macula subtus marginali alba.

Pyralis atralis, *Hubn. Pyral.* pl. 5, f. 27.
Perilypa atralis, *Hubn. Verz. Schm.* 372, 3571.
Hercyna atralis, *Treit. Schm.* vii. 11, 206. *Eversm. Faun. Volg.-Ural.* 476. *Herr.-Schæff. Eur. Schm.* iv. 16, 23.
Threnodes atralis, *Dup. Lep.* 252, pl. 226, f. 6.
Heliothela atralis, *Guen. Delt. et Pyral.* 152, 59.
Tortrix Hellwigiana? *Fabr. Ent. Syst.* iii. 2, 146.
Pyralis undulalis, *Schr. Faun. Boic.* 1722.

France. Austria. Hungary. Livonia. South Russia.

Genus 4. HERCYNA.

Corpus robustum, villosum. Frons angusta. Ocelli magni. Proboscis brevissima. Palpi porrecti, valde hirsuti. Palpi maxillares vix conspicui. Antennæ validæ, thorace vix breviores. Pedes robusti, villosi, calcaribus longis. Alæ nigricantes, sericeæ, rotundatæ, lineis diffusis indistinctis. *Mas.*—Abdomen subdepressum; fasciculus apicalis quadratus. *Fœm.*—Abdomen tumidum, apice acutum, oviductu producto.

Hercyna, *Treit. Schm.* vii. 179. *Dup. Herr.-Schæff. Guen. Delt. et Pyral.* 153.
Metaxmeste, p. *Hubn. Verz. Schm.* 352.

Body stout, villose. Front narrow. Ocelli large. Proboscis very short. Palpi porrect, hirsute with long hairs to their tips. Maxillary palpi rudimentary. Antennæ stout, nearly as long as the body. Abdomen not or hardly extending beyond the hind wings. Legs stout; femora and tibiæ villose; spurs long. Wings blackish,

silky, rounded, moderately broad, not long; lines diffuse, not distinct. *Male.*—Abdomen slightly depressed, with a quadrate apical tuft. *Female.*—Abdomen tumid; tip acute; oviduct prominent.

A. *Alæ* anticæ albido conspersæ. - - - pyrenæalis, *Dup.*
B. Alæ anticæ albido non conspersæ
A. Alæ posticæ fimbria alba basi nigro punctata sericatalis, *Herr.-Schæff.*
B. Alæ fimbria apice alba. holosericealis, *Hubn.*
C. Alæ fimbria cinerea. rupicolalis, *Hubn.*

1. HERCYNA PYRENÆALIS.

Nigricans; alæ linea submarginali undulata punctisque marginalibus albidis; anticæ albido conspersæ, linea interiore nigra orbiculari, reniformi maculaque rotunda posteriore nigro marginatis.

Hercyna pyrenæalis, *Dup. Suppl.* 400, pl. 82, f. 6. *Herr.-Schæff. Eur. Schm.* iv. 17, 29. *Guen. Delt. et Pyral.* 153, 60.
Hercyna Simplonialis, *Herr.-Schæff. Eur. Schm.* f. 31—34.

Alps. Pyrenees.

a. Europe. From M. Becker's collection.

2. HERCYNA SERICATALIS.

Nigro-fusca; alæ lineis interiore et exteriore late subviolaceis; anticæ apice albæ; posticæ fimbria alba basi nigro punctata.

Hercyna sericatalis, *Herr.-Schæff. Eur. Schm.* iv. 17, 30, pl. 5, f. 28, 29. *Guen. Delt. et Pyral.* 154, 61.

Constantinople.

3. HERCYNA HOLOSERICEALIS.

Fusca; alæ (anticæ brevius) ciliis apice albis, lineis interiore et exteriore latis, orbiculari et reniformi glaucis aut subviolaceis.

Pyralis holosericealis, *Hubn. Pyral.* pl. 17, f. 112.
Pyralis rupicolalis, *Hubn. Pyral.* pl. 21, f. 139.
Metaxmeste holosericealis, *Hubn. Verz. Schm.* 352, 3362.
Hercyna holosericealis, *Treit. Schm.* vii. 181, 2. *Dup. Lep.* 355, pl. 234, f. 6, 7. *Guen. Delt. et Pyral.* 154, 62.

Hercyna rupicolalis, *Herr.-Schæff. Eur. Schm.* iv. 17, 32.
Switzerland. Piedmont. Pyrenees.

4. HERCYNA RUPICOLALIS.

Nigricans; alæ nigro-fuscæ, lineis exteriore et submarginali cinereis diffusis, linea marginali nigra, fimbria cinerea; anticæ lineis basali et interiore liturisque discalibus cinereis.

Pyralis rupicolalis, *Hubn. Pyral.* f. 198, 200.
Pyralis sericealis, *Hubn. Pyral.* f. 43.
Pyralis phrygialis, *Hubn. Pyral.* f. 42.
Metaxmeste rupicolalis, sericealis et phrygialis, *Hubn. Verz. Schm.* 352, 3361, 3363, 3364.
Noctua monedula, *Esp. Schm.* pl. 72, f. 5, 6.
Hercyna rupicolalis, *Treit. Schm.* vii. 181, 3. *Dup. Lep.* 258, pl. 227, f. 2. *Herr.-Schæff. Eur. Schm.* iv. 17, 32. *Guen. Delt. et Pyral.* 154, 63.

a—c. Europe. From M. Becker's collection.
d. Switzerland. From M. Heminghoffen's collection.

Genus 5. BOREOPHILA.

Corpus sat gracile. Frons tumida. Proboscis longa, robusta. Palpi recti, rostriformes, capite longiores; articulus 1us amplus, rotundatus; 2us securiformis; 3us conicus, indistinctus. Palpi maxillares longi-conici. Antennæ longæ, graciles, cylindricæ, filiformes. Abdomen longum, alas posticas superans. Pedes longi; tibiæ intermediæ supra villosæ. Alæ læves; anticæ subacutæ, linea exteriore valde flexa; posticæ lituris nullis. *Mas.*—Abdomen apicem versus depressum, valvulis analibus bene determinatis. *Fœm.*—Abdomen crassum, acuminatum.

Hercyna, p., *Treit.*
Botys, p., *Herr.-Schæff.*
Boreophila, *Guen. Cat. Dup.* 196; *Delt. et Pyral.* 155.

Body rather slender. Front arched. Proboscis long, robust, prominent. Palpi straight, rostriform, longer than the head; first joint large, rounded; second securiform; third conical, not distinct. Maxillary palpi elongate-conical, contiguous to the front. Antennæ long, slender, cylindrical, filiform. Abdomen long, extending beyond the hind wings. Legs long; middle tibiæ villose above.

Wings smooth. Fore wings with slightly acute tips; exterior line much bent. Hind wings without markings above. *Male.*—Abdomen depressed towards the tip; sides projecting; anal valves much developed, extending beyond the apical tuft. *Female.* — Abdomen very thick, acuminated.

1. Boreophila manualis.

Cinereo-nigricans; abdomen incisuris albis; alæ anticæ fumoso-nigræ, spatio marginali cinerascente, orbiculari et reniformi nigris, fimbria nigricante; posticæ nigræ, apud discum pallidiores, fimbria alba.

Pyralis manualis, *Hübn. Pyral.* f. 195, 197.
Hercyna manualis. *Treit. Schm.* vii. 180, 1. *Dup. Lep.* 256, pl. 227, f. 1. *Eversm. Faun. Volg.-Ural.* 472.
Botys manualis, *Herr.-Schæff. Eur. Schm.* iv. 33, 96.
Boreophila manualis, *Guen. Delt. et Pyral.* 156, 64.
Var. Hercyna furvalis, *Eversm. Bull. Mosc.* 1842.
Botys furvalis, *Herr.-Schæff. Eur. Schm.* iv. 33, 95, pl. 9, f. 61, 62.
Swiss Alps. South Russia.

2. Boreophila Scandinavialis.

Fœm. *Fuliginoso-nigra; alæ anticæ apice productæ, spatio discali trigono albido pulverulento magno strigam nigricantem includente, fasciola basali lineaque submarginali cinerascentibus; posticæ nigræ, venis saturatioribus, costa alba, lunula discali lineaque submarginali indistinctis, fimbria alba; quatuor subtus albidæ, venis obscurioribus.*

Boreophila Scandinavialis, *Guen. Cat. Dup.* 195; *Delt. et Pyral.* 156, 65.

Norway.

3. Boreophila frigidalis.

Fœm. *Rufescente-fusca, subtus cinerea; palpi fusci, intus cinerei; thorax fuscus; abdomen nigrum; alæ anticæ angustæ, apice productæ, albido-cinereo conspersæ, spatio basali, fascia lata subareuata, striga discali fasciolaque submarginali non conspersis, fimbria fusco cinereoque varia; posticæ nigricante-cinereæ, spatio antico albo lineolam nigricantem includente.*

Boreophila frigidalis, *Guen. Cat. Dup.* 195; *Delt. et Pyral.* 157, 66.

Norway.

Genus 6. ORENAIA.

Corpus gracile. Frons plana. Proboscis longa, robusta. Palpi porrecti; articulus 2us squamoso-hirsutus; 3us longi-conicus, 2o valde brevior. Palpi maxillares distincti. Antennæ validæ, simplices. Abdomen conicum, attenuatum, alas posticas vix superans. Pedes robusti, squamosi, non villosi, calcaribus longissimis. Alæ dense vestitæ, non longæ, apice subacuminatæ, fimbria lata; anticæ marmoratæ.

Hercyna, p., *Treit.*; *Herr.-Schæff.*
Orenaia, *Dup. Cat.* 196. *Guen. Delt. et Pyral.* 157.

Body slender. Front depressed. Proboscis long, robust. Palpi porrect, separated by the proboscis, shorter than the breadth of the head; second joint squamous-hirsute; third elongate-conical, much shorter than the second. Maxillary palpi distinct, parted. Antennæ stout, simple. Abdomen conical, attenuated, hardly extending beyond the hind wings, with a compressed apical tuft in the male, with a prominent oviduct in the female. Legs stout, squamous, not villose; spurs very long. Wings thickly clothed, moderately broad, not long, slightly acuminated at the tips; fringe broad. Fore wings marbled; exterior border slightly oblique.

1. ORENAIA ALPESTRALIS.

Nigricans, subtus albida; abdomen albido fasciatum; alæ anticæ lineis undulatis ex parte diffusis albidis; posticæ cinereo-fuscæ, linea exteriore albida; quatuor subtus linea margineque lato æneo-fuscis.

Phalæna alpestralis, *Fabr. Ent. Syst.* iii. 2, 223, 350.
Crambus alpestris, *Fabr. Suppl.* 466, 14.
Pyralis rupestralis, *Hübn. Pyral.* f. 201, 203.
Hercyna alpestralis, *Treit. Schm.* vii. 182, 4. *Dup. Lép.* 260, pl. 227, f. 3. *Herr.-Schæff. Eur. Schm.* iv. 18, 33.
Orenaia alpestralis, *Guen. Delt. et Pyral.* 158, 67.

Swiss and French Alps. Lapland.

2. ORENAIA ANDERREGGIALIS.

Mas. O. Alpestrali *affinis, squamis plumbeo-cinereis confertim conspersa; abdomen pallide cinereum; alæ anticæ costa ex parte ochraceo-flava, lituris confusis, linea 1a puncto discali punctisque duobus costalibus nigricantibus conspicuis; posticæ pallidiores.*

Hercyna Anderreggialis, *Herr.-Schæff. Eur. Schm.* f. 124—126.
Oronaia Anderreggialis, *Guen. Delt. et Pyral.* 158, 68.

Valais.

3. ORENAIA HELVETICALIS.

Major; alæ anticæ lituris magis confusis, subtus pallidiores, linea nigra sinuata nulla.

Hercyna helveticalis, *Herr.-Schæff. Eur. Schm.* f. 127, 128.
Orenaia helveticalis, *Guen. Delt. et Pyral.* 159, 69.

Swiss Alps.

Genus 7. APORODES.

Corpus gracile. Frons parva, valde convexa. Proboscis mediocris. Palpi recti; articulus 2us hirsutus; 3us brevis, distinctus, nudus, truncatus. Palpi maxillares penicillati, valde breviores. Antennæ fasciculis setisque commixtis inæqualibus. Abdomen cylindricum, fasciculo apicali quadrato. Pedes longi, robusti, tibiis intermediis villosis. Alæ rotundatæ, pulverulentæ, fimbria lata; anticæ nebulosæ; posticæ bicolores.

Leimonia, p., *Hubn. Verz. Schm.* 350.
Pyrausta, p., *Treit.; Dup.*
Hercyna, p., *Herr.-Schæff.*
Aporodes, *Guen. Delt. et Pyral.* 159.

Body slender. Front small, somewhat globose. Proboscis of moderate length. Palpi straight; second joint hirsute; third short, distinct, bare, truncated. Maxillary palpi forming a pencil, half the length of the labial palpi. Antennæ with tufts and setæ mixed, unequal. Abdomen cylindrical, extending but little beyond the hind wings; the tip appearing quadrate by means of the hairs. Legs long, stout; middle tibiæ villose. Wings rounded, pulverulent; fringe broad. Fore wings clouded. Hind wings of two colours.

1. APORODES FLORALIS.

Pallide fulva; abdomen fuscum, fulvo cinctum; alæ anticæ nigricante conspersæ, fasciolis duabus cyanescente-cinereis, lineis mediis aut nigricantibus et distinctis aut nullis, macula discali cinerea, punctis duobus anticis nigris; posticæ sordide fulvæ, margine lineaque submarginali nigris, fimbria albida.

Pyralis floralis, *Hubn. Pyral.* pl. 22, f. 142.
Leimonia floralis, *Hubn. Verz. Schm.* 350, 3352.
Pyrausta floralis, *Treit. Schm.* vii. 178, 12. *Dup. Lép.* 236, pl. 225, f. 6.
Pyrausta conversalis, *Dup. Lép.* 353, pl. 234, f. 4, 5.
Hercyna floralis, *Herr.-Schæff. Eur. Schm.* iv. 17, 31, pl. 4, f. 22, 23.
Aporodes floralis, *Guen. Delt. et Pyral.* 159, 70.

South France. Italy. Sicily. Spain. Turkey.

2. APORODES SICULALIS.

A. florali *affinis; abdomen subtus fuscum; alæ anticæ minus rotundatæ, magis productæ, nigricante ex parte suffusæ, atomis cyaneo-cinereis nullis, linea exteriore costam versus bene determinata uni-angulata; posticæ omnino nigræ, puncto anali pallido.*

Pyrausta siculalis, *Dup. Lép.* 240, pl. 225, f. 8.
Hercyna siculalis, *Herr.-Schæff. Eur. Schm.* iv. 18, 34, pl. 12, f. 85.
Aporodes siculalis, *Guen. Delt. et Pyral.* 160, 72.

Sicily. Dalmatia.

3. APORODES STYGIALIS.

Fusco-nigricans; alæ anticæ nitentes, obsolete flavo variæ.

Pyrausta stygialis, *Treit. Schm.* vii. 176, 10.
Hercyna stygialis, *Herr.-Schæff. Eur. Schm.* iv. 18, 35.
Aporodes stygialis, *Guen. Delt. et Pyral.* 160, 72.

Dalmatia.

4. APORODES VESPERTALIS.

Major; alæ subtus flavæ; anticæ olivaceæ, lineis duabus valde flexuosis punctisque tribus aut quatuor discalibus nigris; posticæ fulvæ, basi fasciaque submarginali nigris.

Hercyna vespertalis, *Herr.-Schæff. Eur. Schm.*
Aporodes vespertalis, *Guen. Delt. et Pyral.* 161, 73.
Asia Minor.

5. APORODES? RUFOCRINITALIS.

Alæ cinereæ, anticæ fasciis duabus obscurioribus interne albo inductis, margineque summo costali roseo; caput, palpi et pedes rubescente-pilosa.

Hercyna rufocrinitalis, *Zett. Ins. Lapp.* 975, 3.
Sweden. Lapland.

Fam. 2. ENNYCHIDÆ.

Statura parva. Corpus gracile. Proboscis robusta, longa. Palpi recti, trigoni, squamosi, rostriformes. Palpi maxillares parvi, penicillati. Antennæ graciles, filiformes, non ciliatæ, maris nonnunquam pubescentes, basi approximatæ. Thorax ovalis. Abdomen maris conicum, attenuatum, acuminatum. Pedes longi, graciles, glabri. Alæ læves, sericeæ, integræ; anticæ apice productæ.

Ennychidæ, *Dup. Cat.* 196; *Steph; Guen. Delt. et Pyral.* 162.

Size small. Body slender. Proboscis long, stout. Palpi straight, triangular, squamous, rostriform. Maxillary palpi small, penicillate. Antennæ slender, filiform, approximate at the base, sometimes pubescent, but not setose in the male. Thorax oval. Abdomen of the male conical, attenuated, acuminated. Legs long, slender, bare. Wings smooth, silky, entire. Fore wings elongate at their tips.

A. Frons non producta.
  A. Alæ coloribus vividis. - - - 2. RHODARIA, *Guen.*
  B. Alæ coloribus non vividis.
    a. Abdomen cinctum.
      a. Alæ maculis punctisque flavis. - 1. PYRAUSTA, *Schr.*
      b. Alæ lineis albis. - - - 7. ENNYCHIA, *Treit.*
    b. Abdomen vix cinctum. - - 4. HERBULA, *Treit.*
    c. Abdomen non cinctum. - 3. PHLYCTÆNODES, *Guen.*
B. Frons producta.
  A. Frons non bidentata. - - - 5. TEGOSTOMA, *Zell.*
  B. Frons bidentata. - - 6. ANTHOPHILODES, *Guen.*

Genus 1. PYRAUSTA.

Corpus gracile. Proboscis longa, robusta. Palpi porrecti; articulus 2us dense pilosus; 3us conicus, minutus. Palpi maxillares minimi. Antennæ graciles, simplices. Abdomen apicem versus attenuatum, alas posticas paullo superans. Pedes graciles, nudi, longiusculi, calcaribus longis. Alæ acuminatæ, maculis punctisque flavis; anticæ margine exteriore subobliquo.

Pyrausta, *Schr. Faun. Boic.* 163; *Treit.; Dup.; Steph.; Guen. Delt. et Pyral.* 163.
Porphyritis, *Hübn. Verz. Schm.* 349.
Botys, p., *Herr.-Schæfl.*

Body slender. Proboscis long, robust. Palpi porrect, as long as the breadth of the head; second joint densely pilose; third conical, minute, not more than one-fourth of the length of the second. Maxillary palpi very small. Antennæ slender, simple. Abdomen attenuated towards the tip, extending a little beyond the hind wings. Legs slender, bare, rather long; spurs long. Wings acuminated, moderately long and broad, with yellow spots or points. Fore wings with the exterior border slightly oblique.

A. Alæ fimbria latissime nivea. - - - pygmæalis, *Dup.*
B. Alæ fimbria anguste pallida.
A. Alæ anticæ macula versus marginem interiorem rotundata flava. - - - - - - phœnicealis, *Fisch.*
B. Alæ anticæ macula apud marginem interiorem obsoleta aut informi.
a. Alæ anticæ purpureæ. - punicealis, *Wien. Verz.*
b. Alæ anticæ fuscæ.
a. Alæ anticæ lætiores. - - porphyralis, *Wien. Verz.*
b. Alæ anticæ obscuriores. - - Chionealis, *Guen.*
C. Alæ anticæ lunula apud marginem interiorem flava.
a. Major, læte purpurea. - - - - purpuralis, *Linn.*
b. Minor, violaceo-purpurea. - - ostrinalis, *Hübn.*

1. Pyrausta Chionealis.

Ferrugineo-fusca; abdomen nigrum, niveo cinctum; alæ fimbria alba basi nigricante; anticæ margine exteriore flavescente-cinereo maculis fuscis contiguis, maculis quatuor discalibus sordide flavis; posticæ fascia vix ochraceo-flava nonnunquam perangusta.

Pyrausta Chionealis, *Guen. Delt. et Pyral.* 164, 74
Pyrausta porphyralis, *var.?*
Pyrenees. Lapland.

2. PYRAUSTA PORPHYRALIS.

Fusca; abdomen albo fasciatum; alæ anticæ maculis sulphureis; posticæ nigræ, fascia flava postice attenuata.

Pyralis porphyralis, *Wien. Verz.* 317, 50.
Phalæna porphyralis, *Fabr. Mant. Ins.* ii. 223, 317; *Ent. Syst.* iii. 2, 239, 414.
Phalæna-Pyralis porphyralis, *Gmel. ed. Syst. Nat.* i. 5, 2526, 953.
Pyralis coccinalis, *Hubn. Pyral.* f. 37.
Porphyritis porphyralis, *Hübn. Verz. Schm.* 350, 3346.
Pyrausta porphyralis, *Treit. Schm.* vii. 170. *Eversm. Faun. Volg.-Ural.* 470. *Dup. Lép.* 403, pl. 82, f. 8. *Guen. Delt. et Pyral.* 164, 75.
Botys porphyralis, *Herr.-Schæff. Eur. Schm.* iv. 21, 48, pl. 15, f. 101, 102.
Germany. France. Austria. Hungary. Russia.

3. PYRAUSTA PUNICEALIS.

Purpureo-nigricans; abdomen albido fasciatum; alæ anticæ litura costali, orbiculari, reniformi magna strigulisque duabus posterioribus luteis; posticæ fascia lutea.

Pyralis punicealis, *Wien. Verz.* 317, 49. *Brahm. Ins.* 279.
Phalæna punicealis, *Fabr. Mant. Ins.* ii. 223, 318; *Ent. Syst.* iii. 2, 239, 415.
Phalæna-Pyralis punicealis, *Gmel. ed Syst. Nat.* i. 5, 2526, 954.
Pyralis porphyralis, *Hubn. Pyral.* pl. 6, f. 36. *Haw. Lep. Brit.* 389. *Schr. Faun. Boic.* 1726. *Brahm. Ins.* 278?
Porphyritis punicealis, *Hubn. Verz. Schm.* 349, 3345.
Pyraustis porphyralis, *Steph. Ill. Brit. Haust.* iv. 36, 6.
Pyrausta punicealis, *Treit. Schm.* vii. 168. *Dup. Lep.* 222, pl. 224, f. 6. *Herr.-Schæff. Eur. Schm.* iv. 21, 47, pl. 15, f. 103, 104. *Guen. Delt. et Pyral.* 165, 76.

a—c. England. Presented by Edwin Shepherd, Esq.
d—l. England. From Mr. Stephens' collection.
m—s. England.
t—u. Europe. From M. Becker's collection.
w, x. Germany. From M. Heminghoffen's collection.

4. PYRAUSTA PYGMÆALIS.

Rubra ; abdomen nigrum ; alæ fimbria alba ; anticæ linea flavo bimaculata margineque exteriore nigris ; posticæ nigræ, fascia flava.

Pyrausta pygmæalis, *Dup. Lep.* 225, pl. 224, f. 7. *Zell. Isis*, 1847. *Guen. Delt. et Pyral.* 166, 78.
Pyrausta fucatalis, *Treit. Suppl.* 36.
Pyralis fucatalis, *Herr.-Schæff. Eur. Schm.* pl. 15, f. 79, 80.
Pyralis pygmæalis, *Herr.-Schæff. Eur. Schm.* iv. 21, 45.
Pyrausta atro-sanguinalis, *Eversm. Faun. Volg.-Ural*, 471 ; *Bull. Mosc.* 1842.

South France. Sicily. Ural Region. Hungary.

5. PYRAUSTA PHŒNICEALIS.

Rubra ; abdomen nigrum ; alæ fimbria apice flava ; anticæ macula apud marginem interiorem flava rotundata ; posticæ nigræ, fascia pyriformi.

Pyrausta phœnicealis, *Fisch.-Rosl. Schm.* 279, pl. 93, f. 2. *Zell. Isis*, 1847, 647.
Pyralis phœnicealis, *Herr.-Schæff. Eur. Schm.* iv. 21, 46.
Pyrausta falcatalis, *Guen. Delt. et Pyral.* 167, 79.

South Italy. Austria. Hungary.

6. PYRAUSTA PURPURALIS.

Purpurea ; abdomen nigro-purpureum, flavescente fasciatum ; alæ anticæ plaga basali, reniformi subquadrata, fascia maculari exteriore, lineaque submarginali incompleta luteis ; posticæ nigro-purpureæ, lituris interioribus fasciaque exteriore arcuata luteis.

——— ——— *Schæff. Icon.* pl. 209, f. 5, 6 ? *Wilkes*, pl. 5, f. 2. *Harr. Aur.* pl. 28, f. m.
Phalæna-Pyralis purpuralis, *Linn. Faun. Suec.* 1356 ; *Syst. Nat.* ii. 883. *Clerck. Icon.* pl. 9. f. 10. *Gmel. ed. Syst. Nat.* i. 5, 2526, 342. *Don. Brit. Lep.* x. 34, pl. 339, f. 2. *Turt. Syst. Nat.* iii. 283.

Phalæna purpuralis, *Fabr. Sp. Ins.* ii. 175, 194; *Mant. Ins.* ii. 223, 316; *Ent. Syst.* iii. 2, 238, 413.
Pyralis purpuralis, *Wien. Verz.* 142, 42. *Brahm. Ins.* 278. *Schr. Faun. Boic.* 1727. *Haw. Lep. Brit.* 388. *Herr.-Schæff. Eur. Schm.* iv. 22, 49, pl. 15, f. 105, 106.
Pyralis punicealis, *Hubn. Pyral.* f. 34.
Porphyritis punicealis, *Hubn. Verz. Schm.* 349, 3345.
Pyrausta purpuralis, *Treit. Schm.* vii. 166. *Dup. Lep.* 218, pl. 224, f. 4, 5. *Steph. Ill. Brit. Haust.* iv. 35, 3. *Guen. Delt. et Pyral.* 167, 80.

a—t. England. From Mr. Stephen's collection.
v—y. England. From Mr. Chant's collection.
z—ff. England.
gg—kk. Europe. From M. Beeker's collection.

7. Pyrausta ostrinalis.

Rubro-rosea; abdomen nigrum, fasciis flavis; alæ fimbria apice pallida; anticæ linea informi pallide flava nigro marginata, linea submarginali abbreviata aut obsoleta; posticæ nigræ, gutta lineaque exteriore flavis.

Pyralis ostrinalis, *Hubn. Pyral.* pl. 17, f. 113. *Haw. Lep. Brit.* 389.
Pyralis punicealis, *Haw. Lep. Brit.* 389.
Pyralis purpuralis? *Hubn. Pyral.* f. 35.
Pyrausta ostrinalis, *Dup. Lep.* 226, pl. 224, f. 8. *Steph. Ill. Brit. Haust.* iv. 36, 5. *Herr. Schæff. Eur. Schm.* iv. 22, 50, pl. 15, f. 107, 108. *Guen. Delt. et Pyral.* 167, 81.
Pyrausta punicealis, *Steph. Ill. Brit. Haust.* iv. 35, 4.

a—bb. England. From Mr. Stephens' collection.
cc. England.
dd, ee. Italy. From Dr. Leach's collection.
ff, gg. Europe.

North America.

8. Pyrausta Orphisalis.

Fœm. *Ferruginea; palpi subtus, pectus pedesque alba; abdomen fuscum, subtus albo fasciatum; alæ linea marginali pallida; anticæ nigro subconspersæ, fasciis duabus obliquis interruptis maculaque discali intermedia luteis; posticæ fascia lutea pallidiore integra.*

Female. Ferruginous. Palpi beneath, pectus and legs white. Abdomen brown, with white bands beneath. Wings with a pale marginal line. Fore wings minutely speckled with black, with two irregular oblique interrupted luteous bands; a luteous discal intermediate spot. Hind wings with a regular entire paler luteous band. Wings beneath luteous, with two irregular brown bands. Length of the body 3 lines; of the wings 7 lines.

a, b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.
c. Nova Scotia. From Lieut. Redman's collection.

9. PYRAUSTA EROSNEALIS.

Fœm. *Rufescente-cinerea; alæ ex parte roseo-rufæ; anticæ fasciis duabus, 1a roseo-rufa anticæ abbreviata, 2a lutea obliqua undulata roseo marginata antice abbreviata; posticæ lateritiæ.*

Female. Reddish cinereous. Fore wings partly rosy red. Fore wings with two bands; first rosy red, abbreviated in front, enclosing two luteous dots; a luteous discal dot between this band and the exterior one, which is luteous, oblique, undulating, distinct, rosy-bordered, abbreviated by the costa. Hind wings brick-red. Length of the body 2½ lines; of the wings 6 lines.

a. United States. Presented by E. Doubleday, Esq.

Asia.

10. PYRAUSTA SILHETALIS.

Mas. *Purpurascente nigro-fusca; corpus subtus pedesque fulva; alæ posticæ nigræ, fascia lata ochracea; quatuor subtus fascia flava.*

Pyrausta Silhetalis, *Guen. Delt. et Pyral.* 166, 78.

Silhet.

11. PYRAUSTA ABSISTALIS.

Fœm. *Nigricante-fusca, cupreo tincta, subtus lutea; thoraæ luteo marginatus, tegulis longissimis; abdomen albo fasciatum, apice nigrum; alæ punctis marginalibus indistinctis nigris, fimbria cinerea interlineata; anticæ costa ex parte fasciisque duabus antice abbreviatis luteis; posticæ fascia informi lutea.*

Female. Blackish brown, with a cupreous tinge, luteous beneath. Thorax luteous in front and on each side; tegulæ very long. Hind borders of the abdominal segments white; tip black. Legs luteous. Wings with indistinct black marginal points; fringe cinereous, interlined. Fore wings interruptedly and irregularly luteous along the costa, and with two irregular luteous bands; the first attenuated and abbreviated in front; the second much abbreviated in front. Hind wings with a dislocated luteous band. Length of the body 3—3½ lines; of the wings 7—8 lines.

a—c. Ceylon. From Mr. Stevens' collection.
d. Hindostan. From Archdeacon Clerk's collection.

Genus 2. RHODARIA.

Corpus gracile. Proboscis robusta. Palpi lanceolati, pubescentes, subascendentes; articulus 3us acutus, brevissimus. Palpi maxillares truncato-penicillati. Antennæ maris subpubescentes. Abdomen attenuatum, alas posticas plus minusve superans. Pedes graciles, longiusculi, nudi. Alæ sericeæ, sat angustæ, sæpissime plus minusvæ roseæ; anticæ acutæ, margine exteriore sat obliquo.

Pyrausta, p., *Treit.*
Ostrinis et Syllythria, p., *Hubn. Verz. Schm.* 349, 360.
Rhodaria, *Guen. Cat. Dup.* 199; *Delt. et Pyral.* 168.
Botys, p., *Herr.-Schæff.*

Body slender. Proboscis stout, moderately long. Palpi lanceolate, pubescent, slightly ascending, a little longer than the breadth of the head; third joint acute, about one-fourth of the length of the second. Maxillary palpi forming a truncate pencil. Antennæ minutely pubescent in the male. Abdomen attenuated, extending more or less beyond the hind wings. Legs, slender, bare, rather long; spurs moderately long. Wings silky, rather narrow, moderately long. Fore wings acute; exterior border rather oblique.

Europe.

A. Statura magna. - - - - - palustralis, *Hubn.*
B. Statura parva
A. Alæ anticæ lineis fuscis roseo marginatis. dulcinalis, *Treit.*
B. Alæ anticæ lineis roseis.
a. Alæ anticæ fascia unica. - - - castalis, *Treit.*

B. Alæ anticæ lineis duabus.
  a. Alæ posticæ albidæ, cinereo marginatæ.
    i. Alæ anticæ fascia media divisa. - hæmatalis, *Hubn.*
    ii. Alæ anticæ fascia non divisa. - virginalis, *Dup.*
  b. Alæ posticæ cinereæ, margine subroseo. sanguinalis, *Linn.*
  c. Alæ posticæ cinereæ. - - - pudicalis, *Dup.*

1. RHODARIA PALUSTRALIS.

Lutea; abdomen albidum; alæ anticæ purpureo-roseæ, spatio discali marginibusque interiore et exteriore luteis, orbiculari et reniformi obscuris; posticæ albidæ, cinereo late marginatæ.

Noctua carneola, *Esp. Schm.* pl. 69, f. 8.
Pyralis palustralis, *Hubn. Pyral.* pl. 20, f. 129, 131.
Ostrinis palustralis, *Hubn. Verz. Schm.* 360, 3446.
Pyrausta palustralis, *Treit. Schm.* vii. 115. *Eversm. Faun. Volg.-Ural.* 460.
Botys palustralis, *Herr.-Schæff. Eur. Schm.* iv. 23, 54, pl. 7, f. 45, 46.
Rhodaria palustralis, *Guen. Delt. et Pyral.* 170, 85.
Hungary. Gallicia. South Russia.

2. RHODARIA SANGUINALIS.

Lutea; abdomen cinereum; alæ anticæ costa fasciisque duabus (interiore costam versus dilatata maculamque luteam includente) luteis; posticæ cinereæ, margine lato subroseo.

——— ——— *Schæff. Icon.* i. pl. 19, f. 16.
Phalæna-Pyralis sanguinalis, *Linn. Syst. Nat.* 882, 339. *Gmel. ed. Syst. Nat.* i. 5, 2524, 339.
Pyralis sanguinalis, *Wien.-Verz.* 124, 41. *Rossi, Faun. Etr.* 1191. *Scriba, Ins.* 57, pl. 6. f. 7. *Brahm. Ins.* 280. *Hübn. Pyral.* f. 33.
Phalæna sanguinalis, *Fabr. Sp. Ins.* ii. 274, 189; *Mant. Ins.* ii. 221, 305; *Ent. Syst.* iii. 2, 235, 398.
Pyrausta sanguinalis, *Treit. Schm.* vii. 163. *Dup. Lép.* 214, pl. 224, f. 2.
Botys sanguinalis, *Herr.-Schæff. Eur. Schm.* iv. 23, 55.
Rhodaria sanguinalis, *Guen. Delt. et Pyral.* 170, 86.

a, *b*. New Brighton, Cheshire. Presented by C. S. Gregson, Esq.
c—*e*. England. Presented by Edwin Shepherd, Esq.
f—*h*. England. From Mr. Foxcroft's collection.
i—*dd*. England. From Mr. Stephens' collection.
ee—*hh*. Europe. From M. Becker's collection.
ii. Italy. From Dr. Leach's collection.

3. Rhodaria hæmatalis.

R. sanguinali *affinis ; flava, non cinereo conspurcta ; alæ anticæ lituris roseis plus concisis, fascia media divisa, fimbria albida ; posticæ flavescente-albæ, margine cinereo.*

Pyralis hæmatalis, *Hübn. Pyral.* f. 179.
Syllythria hæmatalis, *Hübn. Verz. Schm.* 349, 3342.
Rhodaria hæmatalis, *Guen. Delt. et Pyral.* 170, 87.
Phalæna rosalis? *Fabr. Ent. Syst.* iii. 2, 241, 425.
Rhodaria hæmatalis, *var.?*

South France.

4. Rhodaria virginalis.

Lutea ; abdomen albidum ; alæ anticæ roseæ, spatio basali lineisque duabus flavis ; posticæ albidæ, linea margineque cinereis.

Pyrausta virginalis, *Dup. Lép.* 216, pl. 224, f. 3.
Botys virginalis, *Herr.-Schæff. Eur. Schm.* iv. 24, 56, pl. 7, f. 43.
Rhodaria virginalis, *Guen. Delt. et Pyral.* 171, 88.

Hungary. Greece.

5. Rhodaria castalis.

Lutea ; abdomen cinereum ; alæ anticæ fascia antice latissima rosea, margine exteriore cinereo ; posticæ cinereæ, macula postica lutea.

Pyrausta castalis, *Treit. Schm.* vii. 165.
Botys castalis, *Herr.-Schæff. Eur. Schm.* iv. 24, 57, pl. 7, f. 44.
Rhodaria castalis, *Guen. Delt. et Pyral.* 171, 89.

South France. Dalmatia. Hungary.

6. Rhodaria Dulcinalis.

Flava; abdomen cinereum; alæ anticæ lineis interiore et exteriore fuscis roseo cinctis, hac angulata, illa undulata, puncto discali punctisque marginalibus nigris; posticæ cinereæ, puncto lineaque arcuata fuscis.

Pyrausta dulcinalis, *Treit. Schm. Suppl.* 35.
Botys dulcinalis, *Herr.-Schæff. Eur. Schm.* iv. 24, 58, pl. 5, f. 13.
Rhodaria dulcinalis, *Guen. Delt. et Pyral.* 171, 90.

Hungary.

7. Rhodaria pudicalis.

Sulphurea; abdomen cinereum; alæ anticæ stria costali, stria latiore ex apice ad medium marginis interioris 3aque tenui ante medium hujus marginis purpureis; posticæ cinereæ.

Pyrausta pudicalis, *Dup. Lép.* 212, pl. 224, f. 1.
Botys pudicalis, *Herr.-Schæff. Eur. Schm.* iv. 24, 59.
Rhodaria pudicalis, *Guen. Delt. et Pyral.* 172, 91.

Hyeres.

North America.

8. Rhodaria phœnicealis.

Fœm. *Lutea; alæ puniceæ, anticæ fasciis duabus, posticæ una subinformibus luteis.*

Hæmatia phœnicealis (Pyralis difformis, Heliaca purpurea), *Hübn. Samml. Exot. Schmett.* i. 22, 58, f. 115, 116.
Rhodaria phœnicalis, *Guen. Delt. et Pyral.* 173, 96.

Florida. Brazil.

9. Rhodaria Nescalis.

Fœm. *Sordide lutea, subtus pallide cinerea; alæ lineis duabus denticulatis undulatis nigris, margine exteriore nigricante-cinereo, fimbria pallide cinerea basi nigricante-cinerea; anticæ reniformi nigra nigricante-cinereo nebulosa.*

Female. Dingy luteous. Body beneath and legs pale cinereous. Palpi white beneath. Wings with two denticulated undulating black lines; exterior border blackish cinereous; marginal line black; fringe pale cinereous, blackish cinereous at the base.

Fore wings with the black reniform mark shaded by blackish cinereous. Length of the body 3—3½ lines; of the wings 7—8 lines.

a—*d*. United States (New York and Illinois). Presented by E. Doubleday, Esq.

10. Rhodaria Flegialis.

Mas. *Roseo-lutea, subtus pallide lutea; alæ roseæ, fimbria pallide cinerea; anticæ acutæ, nigro subconspersæ, fasciis duabus luteis, 1a e plaga discali, 2a e maculis duabus; posticæ fascia exteriore lata abbreviata postice attenuata lutea.*

Male. Rosy luteous, pale luteous beneath. Palpi white beneath. Wings rosy; fringe pale cinereous. Fore wings acute, slightly and minutely speckled with black; two luteous bands; the first forming a discal patch; the second forming two spots, which are connected by a slender curved line. Hind wings with an exterior broad abbreviated luteous band, which is attenuated hindward. Length of the body 3½ lines; of the wings 7 lines.

a, *b*. United States (New York). Presented by E. Doubleday, Esq.

11. Rhodaria? Ophionalis.

Mas. *Læte ferruginea, subtus cinerea; oculi albido marginati; alæ anticæ peracutæ, margine exteriore perobliquo, venis lineaque submarginali pallide flavis, lineis duabus e guttis nigris, fimbria nigricante; posticæ nigricante-cinereæ.*

Male. Bright ferruginous, cinereous beneath. Head whitish about the eyes. Palpi a little longer than the breadth of the head. Abdomen cinereous. Fore wings very acute; exterior border very oblique; veins and a submarginal line pale yellow; two lines composed of black dots; the exterior one more oblique and more complete than the interior one; fringe blackish. Hind wings blackish cinereous. Length of the body 2½ lines; of the wings 6 lines.

a, *b*. United States. Presented by E. Doubleday, Esq.

West Indies.

12. Rhodaria Tyralis.

Var.? *Lutea; thorax antice roseus; alæ antice costa fasciisque duabus roseis, fascia 1a maculam luteam includente, 2a marginali; posticæ roseo-cinereæ, fascia valde abbreviata lutea.*

Rhodaria Tyralis, *Guen. Delt. et Pyral.* 169, 82.

Cuba.

a. ——? From Mr. Milne's collection.
b. ——?

South America.

A. Alæ posticæ non roseæ.
  A. Alæ posticæ linea nulla discali.
    a. Alæ anticæ costa rufescente. - - tæniolalis, *Guen.*
    b. Alæ anticæ costa non rufescente.
      a. Alæ posticæ pallidiores. - - - opalizalis, *Guen.*
      b. Alæ posticæ non pallidiores. - - exuvialis, *Guen.*
  B. Alæ posticæ linea discali. - - insignitalis, *Guen.*
B. Alæ posticæ roseæ. - - - - Agathalis, *Walk.*

13. Rhodaria tæniolalis.

Mas. *Pallide flava; oculi albo cincti; alæ anticæ costa rufescente, fascia submarginali violaceo-rufa cupreo tincta extus vaga recta intus concisa undulata obscura; posticæ pallidiores. subhyalinæ, margine angusto rufescente.*

Rhodaria tæniolalis, *Guen. Delt. et Pyral.* 172, 92.

Brazil. Cayenne.

14. Rhodaria opalizalis.

Mas et fœm. *Straminea; oculi albo cincti; abdominis segmenta albo marginata; alæ anticæ fascia submarginali violaceo et cupreo-rufa utrinque vaga costam non attingente, linea interiore antica contigua concolori; posticæ pallidiores, margine cupreo-fusco angulum interiorem non attingente.*

Rhodaria opalizalis, *Guen. Delt. et Pyral.* 172, 93.

Brazil.

15. Rhodaria exuvialis.

Fœm. R. opalizali *valde affinis; alæ saturatiores minus nitentes; anticæ fascia minus determinata; posticæ non pallidiores.*

Rhodaria exuvialis, *Guen. Delt. et Pyral.* 172, 94.

Cayenne.

16. RHODARIA INSIGNITALIS.

Fœm. *Croceo-flava; oculi albo marginati; alæ margine vago sat lato lateritio; anticæ lineis interiore et exteriore lateritiis, hac valde sinuata, illa suburcuata; posticæ linea una, margine nigricante tincto.*

Rhodaria insignitalis, *Guen. Delt. et Pyral.* 173, 95.

Cayenne.

17. RHODARIA AGATHALIS.

Mas. *Rosea; palpi pedesque flavescentes; alæ anticæ fascia basali pyriformi, macula discali fasciaque submarginali flavis, costa margineque exteriore fusco conspersis; posticæ fascia una flava.*

Male. Rose-colour. Palpi, tip of the abdomen beneath and legs yellowish. Fore wings speckled with brown along the costa and along the exterior border; an abbreviated pyriform yellow band near the base; a yellow spot in the disk and a yellow submarginal band, which is continued on the hind wings. Length of the body 3 lines; of the wings 7 lines.

a. Venezuela From Mr. Dyson's collection.

Mauritius.

18. RHODARIA NERIALIS.

Alæ omnes luteæ, margine fusco-rubescente; anticæ fascia rubricante-fusca.

Pyrausta nerialis, *Boisd. Faun. Ent. Mad. Bourb. et Maur. Lép.* 119.

Rhodaria Nerialis, *Guen. Delt. et Pyral.* 169, 83.

Mauritius. Bourbon.

Asia.

19. RHODARIA PANOPEALIS.

Mas. *Lutea, subtus alba; palpi longiusculi; abdomen flavo fasciatum; alæ extus flavæ, fasciis duabus rufescentibus; anticæ fascia 1a lata undulata obscuro marginata, 2a submarginali antice abbreviata, orbiculari et reniformi fuscis; posticæ fascia 1a informi apicem attingente.*

Male. Luteous, white beneath. Palpi a little longer than the breadth of the head. Hind borders of the abdominal segments pale yellow. Fore wings yellow exteriorly, with two reddish bands; the first broad, undulating, with darker borders; the other submarginal, abbreviated in front; orbicular and reniform marks brown, the latter narrow. Hind wings also yellow exteriorly and with two bands; the first one irregular, extending in front to the tip of the wing. Length of the body 2½ lines; of the wings 6 lines.

a, *b*. China. Presented by G. T. Laye, Esq.

Australia.

20. Rhodaria lancinalis.

Mas. *Flava; caput thoracisque tegulæ roseo tincta; abdomen longissimum, sordide roseum, guttis dorsalibus albis; alæ anticæ angustæ, lanceolatæ, longissimæ, maculatæ margine exteriore perobliquo, dimidio postico sordide roseo, costa saturate rosea, maculis duabus magnis quadratis discalibus, interiore metallica purpurascente-plumbea; posticæ breves, subroseo pallide cinereæ.*

Rhodaria lancinalis, *Guen. Delt. et Pyral.* 169, 84.

Australia?

Genus 3. PHLYCTÆNODES.

Corpus sat robustum. Palpi rostriformes. Palpi maxillares vix conspicui. Antennæ graciles, filiformes. Thorax globosus, squamosus, sat robustus. Abdomen non cingulatum. Alæ validæ, non nitentes; fimbria longa, plena; anticæ apice acutæ, non productæ.

Scopula, p., *Treit.*
Pyrausta, p., *Dup.*
Botys, p., *Herr.-Schæff.*
Phlyctænodes, *Guen. Delt. et Pyral.* 173.

Body rather stout. Palpi rostriform for more than the length of the head beyond it. Maxillary palpi hardly visible. Antennæ slender, filiform. Thorax globose, squamous, rather robust. Abdomen without bands. Wings thick, not shining; fringe long, full. Fore wings acute, but not elongated at the tips.

1. PHLYCTÆNODES PUSTULALIS.

Ferruginea; alæ anticæ maculis duabus basalibus fasciaque costam versus bifida e maculis sulphureis, linea marginali pallide rufa; posticæ nigricante-cinereæ; quatuor fimbria extus alba.

Pyralis pustulalis, *Hübn. Pyral.* f. 191, 192.
Pyrausta pustulalis, *Dup. Lép.* 230, pl. 225, f. 1.
Scopula pustulalis, *Treit. Schm. Suppl.* 15.
Botys pustulalis, *Herr.-Schæff. Eur. Schm.* iv. 24, 60.
Phlyctænodes pustulalis, *Guen. Delt. et Pyral.* 174, 97.
Germany. Italy. Balkan Mountains.

Genus 4. HERBULA.

Corpus robustum. Proboscis valida. Palpi porrecti, hirsuti, capite transverso paullo longiores; articulus 3us conicus, brevissimus. Antennæ maris pubescentes. Abdomen alas posticas non superans. Pedes validi, nudi, vix longi. Alæ densæ, non longæ; anticæ subacuminatæ. *Mas.*—Abdomen gracile, fasciculo apicali rudi. *Fœm.*—Abdomen crassum, penicillo apicali quadrato.

Pyrausta p., *Treit.; Dup.; Steph.*
Botys, p., *Herr.-Schæff.*
Herbula, *Guen. Delt. et Pyral.* 175.

Body stout. Proboscis stout, moderately long, not separating the palpi. Palpi porrect, hirsute, a little longer than the breadth of the head; third joint conical, not more than one-fourth of the length of the second. Antennæ of the male pubescent. Abdomen not extending beyond the hind wings, slender and with a rough apical tuft in the male, thick and with a quadrate apical pencil in the female. Legs stout, bare, hardly long; spurs long. Wings robust, densely clothed, moderately broad, not long. Fore wings slightly acuminated; exterior border moderately oblique.

Europe.

A. Alæ anticæ non virides nec olivaceæ.
A. Alæ posticæ macula fusca. - - - piltalis, *Eversm.*
B. Alæ posticæ macula nulla fusca.
a. Alæ posticæ fascia integra. - cespitalis, *Wien. Verz.*

B. Alæ posticæ fascia valde abbreviata. - æralis, *Hübn.*
B. Alæ anticæ virides. - - - mucosalis, *Herr.-Schæff.*
C. Alæ anticæ olivaceæ.
A. Alæ posticæ fulvescentes. - - - Sardinialis, *Guen.*
B. Alæ posticæ nigricante-cinereæ, spatio pallidiore. congeneralis, *Guen.*
C. Alæ posticæ nigræ - - - consortalis, *Herr.-Schæff.*
D. Alæ anticæ vix olivaceæ. - - - scutalis, *Hubn.*

1. Herbula cespitalis.

Cinereo-fusca, subtus testacea; abdomen nigricans, albido fasciatum, alæ anticæ fascia exteriore undulata margineque cinerascentibus, guttis marginalibus nigris; posticæ fasciis duabus testaceis; quatuor subtus maculis discalibus fasciisque duabus exterioribus fuscis, guttis marginalibus nigris.

Pyralis cespitalis, *Wien. Verz.* 123, 32. *Brahm. Ins.* 280. *Schr. Faun. Boic.* 1725. *Hübn. Pyral.* pl. 6, f. 39. *Haw. Lep. Brit.* 390.
Phalæna cespitalis, *Fabr. Mant. Ins.* ii. 222, 314; *Ent. Syst.* iii. 2, 238, 410.
Phalæna-Pyralis cespitalis, *Gmel. ed. Syst. Nat.* i. 5, 2525, 951.
Tortrix zonana, *Schæff. Icon.* pl. 262, f. 4, 5.
Tinea vestianella, *Clerck. Icon.* pl. 11, f. 11.
Pyralis sordidalis, *Hübn. Pyral.* pl. 7, f. 40. *Haw. Lep. Brit.* 391.
Pyrausta cespitalis, *Treit. Schm.* vii. 173. *Dup. Lép.* 232, pl. 225, f. 3. *Steph. Ill. Brit. Haust.* iv. 34, 1.
Botys cespitalis, *Herr.-Schæff. Eur. Schm.* iv. 23, 53.
Pyrausta sordidalis, *Steph. Ill. Brit. Haust.* iv. 34, 2.
Herbula cespitalis, *Guen. Delt. et Pyral.* 176, 98.
Var. Pyrausta intermedialis, *Dup. Lép.* 350, pl. 234, f. 1, 2.

a—z England. From Mr. Stephens' collection.
aa, bb. England. From Mr. Stevens' collection.
cc—hh. England.
ii—ll. Italy. From Dr. Leach's collection.
mm. Germany. From M. Heminghoffen's collection.

2. Herbula scutalis.

Ferrugineo-fusca; abdomen flavo fasciatum; alæ linea exteriore arcuata lineaque marginali pallide flavis; anticæ linea interiore angulata, orbiculari et reniformi nigris.

Pyralis scutalis, *Hübn. Pyral.* pl. 24, f. 156.
Pyrausta scutalis? *Treit. Schm.* iv. 177, 11. *Dup. Lép.* viii. 2, 234, pl. 225, f. 5.
Herbula scutalis, *Guen. Delt. et Pyral.* 177, 100.
Italy.

3. Herbula peltalis.

Cinerea; alæ anticæ disco ex parte albido, maculis tribus oblongis obliquis discalibus plaga apicali lineaque submarginali fuscis, linea exteriore alba; posticæ macula interiore antica, linea exteriore lineaque marginali fuscis.

Pyrausta peltalis, *Eversm. Bull. Mosc.* 1842; *Faun. Volg.-Ural.* 471.
Botys peltalis, *Herr.-Schæff. Eur. Schm.* f. 93, 129.
Herbula peltalis, *Guen. Delt. et Pyral.* 178, 101.
South Russia.

4. Herbula mucosalis.

Saturate viridis; alæ anticæ maculis tribus discallbus nigris, lineis duabus obliquis albis; posticæ albæ, venis lunula fasciisque duabus nigris.

Botys mucosalis, *Herr.-Schæff. Schm.* iv. 23, 52, f. 14, 15.
Herbula mucosalis, *Guen. Delt. et Pyral.* 178, 102.
Constantinople.

5. Herbula Sardinialis.

Olivacea; alæ anticæ lineis interiore et exteriore pallidissime ochraceis, hac valde flexuosa, illa apud costam abbreviata, maculis duabus discalibus pallide ochraceis, spatio marginali magis flava, punctis marginalibus nigris; posticæ fulvescentes, nigricante suffusæ.

Herbula Sardinialis, *Guen. Delt. et Pyral.* 178, 103.
Sardinia.

6. Herbula congeneralis.

Mas. *Olivaceo-cinerea; abdomen ochraceum; alæ anticæ lineis interiore et exteriore flavescente-albis, hac valde flexa, illa costam non attingente, fascia marginali magis flava punctis mar-*

ginalibus notata, punctis duobus discalibus strigaque intermedia alba; posticæ nigricante-cinereæ, spatio discali pallidiore e fasciola interrupto, linea marginali stramineo alba.

Herbula congeneralis, *Guen. Delt. et Pyral.* 179, 104.

Andalusia.

7. HERBULA CONSORTALIS.

H. congenerali *affinis; alæ posticæ nigræ, lineis duabus pallidis sinuatis concisis non abbreviatis, macula subtus magna discali rotundata.*

Botys consortalis, *Herr.-Schæff. Eur. Schm.* f. 130, 131.
Herbula consortalis, *Guen. Delt. et Pyral.* 179, 105.

Spain.

8. HERBULA ÆREALIS.

Fusco-cinerea, subtus albida; abdomen albido fasciatum; alæ anticæ striga, discali fascia exteriore margineque albido cinereis, punctis marginalibus et reniformi nigricantibus, disco subtus fuscescente; posticæ punctis marginalibus nigris, fimbria albida.

Pyralis ærealis, *Hübn. Pyral.* f. 44.
Pyralis opacalis, *Hübn. Pyral.* f. 169, 170.
Pyrausta ærealis, *Treit. Schm. Suppl.* 13. *Dup. Cat.*
Pyrausta opacalis, *Treit. Schm.* vii. 68. *Dup. Lep.* 98, pl. 215, f. 6. 7.
Pyrausta suffusalis, *Treit. Schm.* vii. 68, 12.
Botys ærealis, *Herr.-Schæff. Eur. Schm.* iv. 33, 99.
Herbula ærealis, *Guen. Delt. et Pyral.* 179, 106.

Caucasus. Asia Minor.

a—d. Europe. From M. Becker's collection.
e, f. Germany. From M. Heminghoffen's collection.

North America.

9. HERBULA SUBSEQUALIS.

Mas—*Testaceo-flava; alæ lituris cinereo-nigris; anticæ acutæ, spatio interiore cinerascente consperso, orbiculari et reniformi magnis nigricantibus, linea exteriore tenui, fascia submarginali nigricante apud medium valde coarctata; posticæ lunula magna discali fasciisque duabus vagis nigricantibus.* Fœm.?—

Minor; alæ anticæ rufescente-fulvæ, lituris nigris; posticæ fulvo-flavæ, margine fasciis duabus lituraque discali nigris, fimbria cinerea basi nigra.

Herbula subsequalis, *Guen. Delt. et Pyral.* 177, 99.

North America.

South America.

10. Herbula? Ilithuciàlis.

Fœm. *Nigra, subtus cinerea; palpi porrecti; articulus 3us lanceolatus. 2i dimidio longior; alæ anticæ ferrugineo subconspersæ, extus ferrugineæ nigro subconspersæ linea pallidiore obliqua indistincta, subtus ochraceæ lunula discali fasciaque submarginali nigris; posticæ ochraceæ, fascia marginali nigra.*

Female. Black, cinereous beneath. Palpi porrect; third joint lanceolate, more than half the length of the second. Fore wings minutely speckled with ferruginous, ferruginous and minutely speckled with black exteriorly, with an indistinct oblique paler line; under side ochraceous, with a black discal lunule and a submarginal black band. Hind wings ochraceous, with a black marginal band. Length of the body 3 lines; of the wings 7 lines.

a. Bogotá. From Mr. Stevens' collection.

Asia.

11. Herbula Meleagrisalis.

Mas. *Cinereo-fusca, sat robusta, subtus alba; abdomen albo fasciatum; alæ subtus pallide luteæ, lineâ exteriore subarcuata nigra; anticæ fasciis pallide cinereis, spatiis costalibus intermediis nigricantibus, striga basali, punctis marginalibus lunulaque nigra subdivisa nigris; posticæ luteæ, fascia abbreviata lineaque marginali nigris.*

Male. Cinereous-brown, rather stout, white beneath. Abdomen with a white band on the hind border of each segment. Wings pale luteous beneath, with an exterior slightly curved black band. Fore wings with pale cinereous irregular bands; the intermediate parts blackish along the costa; basal streak, marginal points, and an almost divided discal lunule black, the last entire beneath. Hind wings luteous, with a black marginal line, and with a black

band which is abbreviated hindward; fringe whitish. Length of the body 3 lines; of the wings 7 lines.

a. Punjaub. Presented by Gen. Hearsay.

Genus 5. TEGOSTOMA.

Corpus gracile. Frons trigona, porrecta, apice incisa. Proboscis bene determinata. Palpi longi, recti, squamosi, rostriformes. Antennæ sat validæ, setis æqualibus. Abdomen fere cylindricum, apice subquadratum, alas posticas paullo superans. Alæ densæ, obscuræ, fimbria longa; anticæ apice rotundatæ.

Tegostoma, *Zell. Isis*, 1847; *Herr.-Schæff; Guen. Delt. et Pyral.* 180.

Body slender. Front triangular, projecting beyond the head, notched at the tip. Proboscis developed. Palpi long, straight, squamous, rostriform, slightly parted at the tips; joints indistinct. Antennæ rather stout, with equal setæ. Abdomen almost cylindrical, subquadrate at the tip, extending a little beyond the hind wings. Wings stout; fringe long. Fore wings rounded at the tips.

1. Tegostoma comparalis.

Flavescente-testacea, lineis interiore et exteriore fuscis non bene determinatis, hac late sinuata, illa costam versus valde arcuata, spatio discali ex parte cinerascente consperso, spatio marginali subfuscescente, guttis marginalibus fuscis subcontiguis, punctis duobus discalibus bene determinatis; posticæ obscuriores.

Pyralis comparalis, *Hübn. Pyral.* pl. 19, f. 127.
Pyrausta comparalis, *Treit. Schm.* vii. 89, 7.
Botys comparalis, *Dup. Lép.* 142, pl. 219, f. 2.
Tegostoma comparalis, *Zell. Isis.* 147. *Herr.-Schæff. Eur. Schm.* iv. 9, 4, pl. 1, f. 5. *Guen. Delt. et Pyral.* 180, 107.

South France. Italy. Sicily. Dalmatia.

Genus 6. ANTHOPHILODES.

Fœm. Corpus sat robustum. Frons producta, bidentata. Palpi subascendentes, squamosi; articulus 3us incumbens, cylindricus, truncatus, valde distinctus. Palpi maxillares conici, acuti.

Antennæ filiformes. Thorax squamosus. Abdomen conicum, apice acutum, alas posticas superans, oviductu producto terebriformi Alæ densæ, sericeæ.

Metaponia, p. *Herr.-Schæff.*
Anthophilodes, *Guen. Delt. et Pyral.* 181.

Female. Body rather stout. Front prominent, bidentate. Palpi slightly ascending; first and second joints with large flattened imbricated scales; third incumbent, cylindrical, truncated, very distinct. Maxillary palpi conical, acute, parallel to the labial palpi. Antennæ filiform. Thorax squamous. Abdomen very conical, with an acute tip, extending considerably beyond the hind wings. Oviduct prominent, terebriform. Wings stout, silky.

1. ANTHOPHILODES LEPIDALIS.

Fœm. *Pallide rosea; alæ anticæ basi fasciisque fimbriaque duabus sulphureo-albis, fascia* 1*a postice subdilatata roseo obscuro marginata,* 2*a angusta abbreviata submarginali; posticæ cinereæ, litura roseo-alba.*

Metaponia lepida, *Herr.-Schæff. Eur. Schm.* ii. 387, *f.* 554.
Anthophilodes lepidalis, *Guen. Delt. et Pyral.* 182, 108.

Amasieh.

Genus 7. ENNYCHIA.

Corpus sat robustum. Proboscis valida, longiuscula. Palpi porrecti, hirsuti, articulus 3us conicus, brevis. Palpi maxillares indistincti. Antennæ validæ, nudæ, longiusculæ. Abdomen alas posticas plus minusve superans. Pedes validi, pilosi, calcaribus longissimis. Alæ sericeæ, densæ vestitæ, non longæ; anticæ apice subrotundatæ, margine exteriore subobliquo. *Mas.*—Abdomen attenuatum, apice acutum. *Fœm.*—Abdomen cylindricum, apice quadratum.

Ennychia, *Treit. Schm.* vii. 195; *Dup. Guen. Delt. et Pyral.* 182; *Steph.*
Pyrausta, p. et Anania, p., *Hübn. Verz. Schm.* 351, 360.
Botys, p., *Herr.-Schæff.*

Body moderately stout. Proboscis stout, rather long. Palpi porrect, hirsute, not longer than the breadth of the head; third joint conical, not more than one-fourth of the length of the second. Maxillary palpi indistinct. Antennæ stout, bare, rather long.

Abdomen extending more or less beyond the hind wings, attenuated and acute at the tip in the male, almost cylindrical and with a quadrate tip in the female. Legs stout, pilose; spurs very long. Wings silky, thickly clothed, moderately broad, not long. Fore wings a little rounded at the tips; exterior border slightly oblique.

A. Alæ omnino nigræ. - - - - nigralis, *Fabr*
B. Alæ lineatæ aut maculatæ.
A. Alæ anticæ maculatæ.
a. Alæ anticæ unimaculatæ. - - - luctualis, *Hübn.*
b. Alæ anticæ bimaculatæ.
a. Alæ maculis albis. - - - octomaculalis, *Linn.*
b. Alæ maculis citrinis. - quadripunctalis, *Wien. Verz.*
B. Alæ anticæ lineatæ.
a. Alæ anticæ unilineatæ.
a. Statura parva.
i. Alæ albo virescente conspersæ. - albofascialis, *Treitz.*
ii. Alæ non conspersæ. - - - cingulalis, *Linn.*
b. Statura sat magna. - - - fascialis, *Hübn.*
b. Alæ anticæ bilineatæ. - - - anguinalis, *Hübn.*
c. Alæ anticæ quadrilineatæ. - - alborivulalis, *Eversm.*

1. Ennychia nigralis.

Omnino nigra.

Phalæna nigralis, *Fabr. Ent. Syst.* iii. 2, 241, 421.
Pyralis nigralis, *Hübn. Pyral.* pl. 5, f. 26. *Schr. Faun. Boic.* 1720?
Ennychia nigralis, *Treit. Schm.* vii. 205, 10. *Dup. Lép.* 253, pl. 226, f. 7. *Guen. Delt. et Pyral.* 182, 109.
Botys nigralis, *Herr.-Schæff. Eur. Schm.* iv. 19, 36.
South France. Switzerland. Italy. Austria. Hungary.

2. Ennychia albofascialis.

Fusca; alæ albo-virescente conspersæ, fascia fimbriaque albis.

Ennychia albofascialis, *Treit. Schm.* vii. 196, 1. *Eversm. Faun. Volg. Ural.* 475. *Guen. Delt. et Pyral.* 183, 110.
Botys albofascialis, *Herr.-Schæff. Eur. Schm.* iv. 20, 41, pl. 4, f. 19.
Silesia. Styria. Hungary. South Russia.

3. ENNYCHIA ALBORIVULALIS.

Fusca; alæ lineis quatuor undulatis albis, fimbria alba fusco radiata; posticæ lineis 1o 2aque abbreviatis.

Ennychia alborivulalis, *Eversm. Bull. Mosc.* 1843; *Faun. Volg.-Ural.* 475. *Guen. Delt. et Pyral.* 183, 111.

Botys alborivulalis, *Herr.-Schæff. Eur. Schm.* iv. 20, 44, pl. 7, f. 41, 42.

Ural Mountains.

4. ENNYCHIA CINGULALIS.

Cupreo-nigra; alæ linea subrecta fimbriaque albis.

——— ———, *Schæff. Icon.* pl. 256, f. 3, 4. *De Vill. Ent. Linn.* ii. 356, 553.

Phalæna-Geometra cingulata, *Linn. Syst. Nat.* 874, 280; *Faun. Suec.* 1303. *Clerck, Icon.* pl. 2, f. 10. *Turt. Syst. Nat.* iii. 267. *Illig.* iii. 24, 31. *Götze, Ent. Beitr.* iii. 4, 354, 280. *Brahm, Ins.* ii. 277, 167.

Phalæna cingulalis, *Fabr. Ent. Syst.* iii. 2, 206, 285.

Pyralis cingulalis, *Wien. Verz.* 123, 31. *Hübn. Pyral.* pl. 5, f. 30. *Schr. Faun. Boic.* ii. 2, 66, 1723. *Lang. Verz.* ii. 211, 1437. *Haw. Lep. Brit.* 391. *Curt. Brit. Ent.* iii. pl. 128.

Pyralis anguinalis, *Haw. Lép. Brit.* 391.

Ennychia cingulalis, *Treit. Schm.* vii. 197, 3. *Dup. Lép.* 245, pl. 226, f. 2. *Steph. Ill. Brit. Haust.* iv. 32, 1. *Guen. Delt. et Pyral.* 183, 112.

Ennychia fascialis, *Dup. Lép.* 247, pl. 226, f. 3.

Botys cingulalis, *Herr.-Schæff. Eur. Schm.* iv. 20, 40.

a—j. England. From Mr. Stephens' collection.
k—m. England.

5. ENNYCHIA FASCIALIS.

Cupreo-fusca; corpus pedesque subtus albida; abdomen nigricans, albo fasciatum; alæ lineæ media vix undulata alba.

Pyralis fascialis, *Hübn. Pyral.* pl. 5, f. 31.

Ennychia fascialis, *Treit. Schm.* vii. 196, 2. *Guen. Delt. et. Pyral.* 184, 113.

Botys fascialis, *Herr.-Schæff. Eur. Schm.* iv. 20, 42.

Hungary.

a. Europe. From M. Becker's collection.

6. ENNYCHIA ANGUINALIS.

Nigricans; abdomen albo fasciatum; alæ lineis duabus albis, 1a guttulari, 2a undulata, fimbria alba.

——— ———, *Geoffr. Ins.* ii. 194, 32.

Pyralis anguinalis, *Hübn. Pyral.* pl. 5, f. 32. *Hübn. Lep. Brit.* 391, var. *a.*

Ennychia anguinalis, *Treit. Schm.* vii. 198, 4. *Dup. Lép.* 244, pl. 226, f. 1. *Steph. Ill. Brit. Ent. Haust.* iv. 32, 2. *Guen. Delt. et Pyral.* 184, 114.

Pyralis fascialis, *Schr. Faun. Boic.* ii. 2, 65, 1721.

Botys anguinalis, *Herr.-Schæff. Eur. Schm.* iv. 20, 39.

a—j. England. From Mr. Stephens' collection.

k. England. From Mr. Foxcroft's collection.

l, m. England.

n—q. Europe. From M. Becker's collection.

7. ENNYCHIA LUCTUALIS.

Atra; alæ anticæ macula discali pyriformi, fimbria apud alæ apicem niveis; posticæ fascia dilatata undulata fimbriaque niveis.

Pyralis luctualis, *Hübn. Pyral.* pl. 14, f. 88.

Ennychia luctualis, *Treit. Schm.* vii. 200, 6. *Eversm. Faun. Volg.-Ural*, 475. *Guen. Delt. et Pyral.* 184, 115.

Noctua unigutta, *Esp. Schm.* iv. 104, pl. 183, f. 12.

Botys luctualis, *Herr.-Schæff. Eur. Schm.* iv. 20, 38, pl. 9, f. 63.

Italy. Hungary. South Russia.

8. ENNYCHIA OCTOMACULALIS.

Cupreo-nigra, albo conspersa; abdomen albo fasciatum; alæ fascia e maculis quatuor niveis, fimbria nivea.

Phalæna-Geometra octomaculata, *Linn. Mant.* 540. *Gmel. ed. Syst. Nat.* i. 5. *Stew. El. Nat. Hist.* ii. 181. *Turt. Syst. Nat.* iii. 284.

Pyralis guttalis, *Wien. Verz.* 124, 45. *Illig.* ii. 31, 45. *Hübn. Pyral.* pl. 12, f. 75. *Schr. Faun. Boic.* ii. 2, 66, 1724. *Lang. Verz.* ii. 213, 1444. *Götze, Ent.* iii. 4, 73, 67.

Phalæna atralis, *Fabr. Ent. Syst.* iii. 2, 241, 422. *Donov. Brit. Lep.* viii. pl. 266, f. 4.
Noctua trigutta, *Esp. Schm.* iv. 84, pl. 163, f. 4.
Pyralis atralis, *Haw. Lep. Brit.* 388.
Ennychia octomaculalis, *Treit. Schm.* vii. 201, 7. *Dup. Lép.* viii. 248, pl. 226, f. 4. *Guen. Delt. et Pyral.* 184, 116.
Anania octomaculata, *Steph. Ill. Brit. Haust.* iv. 31.
Botys octomaculalis, *Herr.-Schæff. Eur. Schm.* iv. 20, 43.

a—d. England. From Mr. Bouchard's collection.
e—k. England. From Mr. Stephens' collection.
l—q. England.
r, s. Europe. From M. Becker's collection.
t, v. Europe.

9. Ennychia quadripunctalis.

Nigra; alæ anticæ maculis duabus discalibus subquadratis citrinis.

Pyralis quadripunctalis, *Wien. Verz.* 124, 43. *Hübn. Pyral.* pl. 12, f. 76. *Illig. N. Auss.* ii. 30, 43. *De Vill. Ent. Linn.* iv. 520. *Lang. Verz.* ii. 212, 1443. *Götze, Ent. Beitr.* iii. 4, 75, 65.
Phalæna-quadripunctalis, *Fabr. Ent. Syst.* iii. 2, 240, 418.
Ennychia quadripunctalis, *Treit. Schm.* vii. 204, 9. *Guen. Delt. et Pyral.* 185, 117.
Botys quadripunctalis, *Herr.-Schæff. Eur. Schm.* iv. 19, 37.

Hungary.

North America.

10. Ennychia glomeralis.

Mas et fœm. *Nigra; oculi albo marginati; palpi subtus albi; thoracis latera pallide lutea; abdomen albo fasciatum; pedes albo varii; alæ maculis duabus magnis aut parvis nigris; anticæ puncto antico nonnunquam obsoleto albo; posticæ fimbria postica alba.*

Male and female. Black. Head white about the eyes. Palpi white beneath. Thorax pale luteous on each side. Abdomen with white bands. Legs mostly white. Wings with two large white spots on each. Fore wings with the first spot oblong; the second transverse; a white point in front of the first spot. Hind wings with the spots nearly round; fringe white hindward. *Var. β.*—

Spots much smaller and the white point nearly or quite obsolete. Length of the body 3—5 lines; of the wings 6—8 lines.

This insect seems to be quite distinct from *E. 8-maculalis*, though it is alike in some characters to the Lapland variety of that species.

a—g. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.
h—j. Nova Scotia. From Lieut. Redman's collection.

Australia.

11. Ennychia Melissalis.

Fœm. *Cinereo-nigra; palpi subtus, pectus, pedes abdominisque fasciæ albida; alæ striga basali fasciaque obliqua divisa fimbriaque albis.*

Female. Cupreous-black. Palpi beneath and pectus whitish. Hind borders of the abdominal segments and legs whitish. Wings with a white basal streak, and with a white oblique band formed by two large white spots on each; fore spot on the fore wings notched on the outer side; hind spot on the hind wings elongate; fringe white. Length of the body 3½ lines; of the wings 8 lines.

a. Australia. From M. Damel's collection.

Fam. 3. ASOPIDÆ.

Statura sæpissime parva. Ocelli distincti. Palpi sæpissime breves, non rostriformes; articulus 3us plus minusve distinctus. Antennæ graciles, cylindricæ, basi approximatæ, sæpe simplices et filiformes, nonnunquam nodosæ. Abdomen conicum, attenuatum, acutum. Alæ concolores, lituris non diversis; anticæ oblongæ, apice extensæ; posticæ sat parvæ.

Asopidæ, *Guen. Delt. et Pyral.* 186.

Size generally small. Head prominent, not closely anchylosed with the thorax. Ocelli distinct. Palpi generally short, not rostriform; third joint more or less distinct. Antennæ slender, cylindrical, approximate at the base, often simple and filiform, occasionally nodose, and as it were dislocated. Abdomen conical, attenuated, acute. Wings alike in colour and with like markings. Fore wings oblong, produced towards their tips. Hind wings not much developed.

A. Palporum articulus 3us longus. - - 13. Daraba, *Walk.*
B. Palporum articulus 3us non longus.
A. Statura magna.
a. Palporum articulus 3us conspicuus. 11. Megaphysa, *Guen.*
b. Palporum articulus 3us non conspicuus.
12. Sparagmia, *Guen.*
B. Statura non magna.
a. Palpi maxillares conspicui.
a. Antennæ maris nodosæ. - - - 3. Desmia, *Westw.*
b. Antennæ maris non nodosæ.
i. Alæ non notatæ.
* Alæ non coccineæ. - - 8. Hyalea, *Guen.*
** Alæ coccineæ. - - 2. Synchromia, *Guen.*
ii. Alæ notatæ.
* Palpi rostriformes. - - 10. Terastia, *Guen.*
** Palpi non rostriformes.
† Palpi ascendentes.
‡ Alæ anticæ lanceolatæ.
9. Agathodes, *Guen.*
‡‡ Alæ anticæ non lanceolatæ.
18. Isopteryx, *Guen.*
†† Palpi non ascendentes. - 1. Syngamia, *Guen.*
b. Palpi maxillares non conspicui.
a. Antennæ articulo 1o crasso. - - 6. Salbia, *Guen.*
b. Antennæ articulo 1o non crasso.
i. Palpi ascendentes.
* Abdomen alas posticas vix superans.
15. Endotricha, *Zell.*
** Abdomen alas posticas longe superans.
† Antennæ longæ. - 4. Ædiodes, *Guen.*
†† Antennæ breves. - 17. Hymenia, *Hübn.*
ii. Palpi non ascendentes.
* Alæ semihyalinæ. - 16. Leucinodes, *Guen.*
** Alæ maculis semihyalinis. - 5. Samea, *Guen.*
*** Alæ maculis nullis semihyalinis.
† Palporum articulus 3us non magnus.
7. Asopia, *Treit.*
†† Palporum articulus 3us magnus.
14. Agrotera, *Schr.*

Genus 1. SYNGAMIA.

Corpus gracile. Frons depressa, brevi-squamosa. Proboscis longa. Palpi brevissimi, compressi, squamosi, non ascendentes, apice truncati. Palpi maxillares conspicui, erecti, læves, apice truncati. Antennæ cylindricæ. Abdomen conicum, maris apice subfurcatum. Alæ læves, nitentes, concolores, lituris non diversis, maculis magnis semihyalinis; anticæ angustæ, apice acutæ.

Syngamia, *Guen. Delt. et Pyral.* 187.

Body slender. Front depressed, smoothly squamous. Proboscis long. Palpi very short, compressed, squamous, not ascending, unequally truncated at the tips. Maxillary palpi distinct, erect, smooth, truncated at the tips. Antennæ cylindrical, moniliform, or with rings. Abdomen conical, terminated in the male by a silky acute pencil, above which there is a slightly bifid point. Wings smooth, shining, alike in colour and with like markings, with large semihyaline spots. Fore wings narrow, with acute tips.

1. Syngamia florellalis.

Mas. *Flava; abdomen ochraceum, fasciis nigro-cyaneis; alæ cupreæ, anticæ maculis tribus, posticæ duabus luteo-hyalinis.*

Anania quinqualis (Pyralis vulgaris, Palpita nobilis), *Hübn. Samml. Exot. Schmett.* iii. 27, 176, f. 351, 352. *Verz. Schm.* 360, 3450.

Phalæna-Tinea Florella, *Cram. Pap. Exot.* iv. 114, pl. 348, f. 4.
Syngamia florellalis, *Guen. Delt. et Pyral.* 187, 118.

South America.

a—c. Venezuela. From Mr. Dyson's collection.
d. Honduras. From Mr. Dyson's collection.
e, f. St. Domingo. From Mr. Tweedie's collection.
g. Jamaica. From Mr. Gosse's collection.
h. ——— ?

2. Syngamia pepitalis.

Mas. *Nigra; frons, thorax antice pedesque flavi; abdomen flavum, fascia apiceque nigris; alæ anticæ maculis duabus luteo-flavis, 1a marginem interiorem attingente, 2a semilunari,*

fimbria apud angulum interiorem albido notata; posticæ luteo-flavæ, nigro late marginatæ, apud marginem interiorem subochraceæ.

Syngamia pepitalis, *Guen. Delt. et Pyral.* 187, 119.

Cayenne.

Africa.

3. Syngamia Merionealis.

Mas. *Lutea; thoracis latera antica flava; abdomen nigro conspersum, guttis duabus basalibus, lateribus, fasciis posticis apiceque nigris; alæ ex parte ochraceæ, purpureo late marginatæ, fimbria alba; anticæ costa basali fasciisque duabus purpureis, fascia 1a tenui, 2a lata apud medium arctata.*

Male. Luteous, yellow beneath. Thorax black on each side in front. Abdomen speckled with black, with a black dot on each side near the base, black on each side and with black bands towards the tip, which is also black. Wings partly bright orange, especially towards the base, largely bordered with purple; fringe white. Fore wings with two purple bands, purple along the costa as far as the first band, which is slender and is continued to the fore part of the hind wings; second band much broader, narrowest in the middle, joining the purple border, which there terminates. Hind wings with the purple continued along the whole length of the exterior border and there forming an angle. Length of the body 4½ lines; of the wings 8 lines.

a. Port Natal. From M. Gueinzius' collection.

Asia.

4. Syngamia Octavialis.

Mas. *Lutea; thorax antice chalybeo-niger; tibiæ anticæ apice nigræ; alæ ex parte ochraceæ, purpureo late marginatæ; anticæ fasciis duabus costaque interiore purpureis, fascia interiore tenui, fascia exteriore postice dilatata luteo notata, gutta costali trigona lutea; posticæ fascia marginali purpurea angulata.*

Male. Luteous, yellow beneath. Thorax chalybeous-black in front. Fore tibiæ with black tips. Wings partly orange, largely bordered with purple; fringe white, black at the base. Fore wings

with two purple bands, purple along the costa as far as the first band, which is slender, and is continued to the fore part of the hind wings; second band broader, dilated, and marked with luteous hindward and joining the purple border, which there terminates; a luteous triangular dot on the costa very near the luteous part. Hind wings with the purple continued along the whole length of the exterior border, and there forming a variable angle. Length of the body 4—4½ lines; of the wings 8—9 lines.

a. North Hindostan. From Mr. James' collection.
b. Sumatra. From Sir Stamford Raffles' collection.
c. ——— ?

Australasia.

5. Syngamia Tiphalis.

Mas. *Lutea; abdomen nigro conspersum, apicem versus nigricans; alæ basi ex parte ochraceæ, purpureo late marginatæ; anticæ striga basali costali brevi, macula subcostali fasciaque exteriore purpureis, fascia postice dilatata; posticæ margine interiore ex parte purpureo.*

Male. Luteous, yellow beneath. Abdomen speckled with black, blackish towards the tip. Wings partly orange towards the base, largely bordered with purple; fringe white, black at the base. Fore wings with a short basal costal purple streak, which approaches a subcostal purple spot; an exterior purple band, dilated hindward and joining the purple border, which there terminates. Hind wings with the purple continued along part of the interior border. This species is especially distinguished from the preceding one by having no costal dot. Length of the body 4½ lines; of the wings 8 lines.

a. Celebes. From Madame Ida Pfeiffer's collection.

Genus 2. SYNCHROMIA.

Mas. Corpus gracile. Proboscis distincta. Palpi trigoni, squamosi, articulis indistinctis. Palpi maxillares erecti, tenues, acuti. Antennæ dense pubescentes. Abdomen conicum, apice truncatum, alas posticas superans. Alæ integræ, sericeæ, concolores, non longæ; anticæ subacutæ.

Synchromia, *Guen. Delt. et Pyral.* 188.

Male. Body slender. Proboscis distinct. Palpi triangular, squamous, with indistinct joints. Maxillary palpi erect, slender,

acute. Antennæ very pubescent. Abdomen conical, terminating in a truncated point, extending a little beyond the hind wings. Legs slender, bare; spurs long. Wings entire, silky, alike in colour; moderately broad, not long. Fore wings slightly acute.

1. SYNCHROMIA CARDINALIS.

Var.? *Coccinea, subtus albida; palpi ochracei, basi albi; pedes nigri; tibiæ rufescentes; abdomen fasciis subalbidis, disco ventrali nigro; alæ spatio apicali cyanescente-nigro.*

Synchromia cardinalis, *Guen. Delt. et Pyral.* 188.

Isle St. Thomas.

Var.? *Male.* Crimson, whitish beneath. Palpi ochraceous, white at the base, slightly curved. Antennæ and legs black; tibiæ reddish. Abdomen with a black ventral disk; hind borders of the segments slightly white. Wings with the apical part bluish black, which hue is abbreviated hindward in the fore wings and attenuated hindward in the hind wings. Length of the body 2½ lines; of the wings 6 lines.

a. Jamaica. From Mr. Gosse's collection.

Genus 3. DESMIA.

Corpus gracile. Frons angusta, antice plana. Proboscis sat longa. Palpi subascendentes, squamosi, compressi; articulus 3us brevissimus, obtusus. Palpi maxillares obsoleti. Antennæ maris nodosæ, fœm. filiformes, glabræ, bicolores. Abdomen alas posticas superans. Pedes validi, fere nudi; calcaria longissima. Alæ angustæ; anticæ apice rotundatæ, margine exteriore perobliquo; posticæ breves.

Anania, p., *Hübn. Verz. Schm.* 360.
Desmia, *Westw. Mag. Zool.* 1831. *Guen. Delt. et Pyral.* 188.
Ædiodes, p., *Guen. Delt. et Pyral.* 191.
Hyalitis, p., *Guen. Delt. et Pyral.* 289.

Body slender. Front narrow, depressed in front. Proboscis rather long. Palpi slightly ascending, squamous, compressed; third joint very short, button-shaped. Maxillary palpi obsolete. Abdomen extending beyond the hind wings. Legs stout, almost bare; spurs very long. Wings narrow; black, with white spots.

Fore wings rounded at the tips; exterior border very oblique. Hind wings short. *Male.*—Antennæ slightly nodose in the middle. *Female.*—Antennæ filiform, smooth, of two colours. Abdomen of the female enlarged, depressed above, ending in an abrupt point, which is furnished with a quadrate or bifid tuft.

The genera *Thyris*, and *Arna* (Cat. Lep. Het. viii. 72, 75), especially the latter, have much resemblance to this genus. Several species of *Ædiodes* obviously belong to *Desmia*, and the former genus is here restricted to *Æ. flavibasalis*, and to a few nearly allied species. Some species of *Hyalitis* are also transferred to *Desmia*, as they appear to be more nearly allied to it than to *H. reginalis*, the type of that genus.

North America.

1. Desmia funeralis.

Fusco-nigra, subtus albo varia; abdomen fascia basali, macula dorsali strigaque apicali albis; alæ anticæ maculis duabus transversis, posticæ fascia albis.

Pyralis funeralis, *Hübn. Pyral.* f. 103.
Anania funeralis, *Hübn. Verz Schm.* 360, 3449.
Botys bicolor? *Swainson, Zool. Illustr.* ii. pl. 77.
Desmia maculalis, *West. Mag. Zool. Class.* ix. pl. 2, 1831. *Guen. Delt. et Pyral.* 189, 121.
Desmia funeralis, *Guen. Delt. et Pyral.* 189, 122.

Nova Scotia.

a—e. United States. Presented by E. Doubleday, Esq.
f—i. United States. From Mr. Milne's collection.
j, k. Orilla, West Canada. From Mr. Bush's collection.
l. ——— ?

2. Desmia? Janassialis.

Fœm. *Nigra; palpi porrecti, subrostriformes; abdomen albo fasciatum; pedes albidi; alæ anticæ elongatæ, margine interiore basali costaque albidis, lineis tribus albis, 1a tenui valde arcuata, 2a interrupta, 3a valde flexa; posticæ basi lineisque duabus albis, linea 1a antice interrupta, 2a postice valde abbreviata.*

Female. Black, whitish beneath. Palpi porrect, nearly rostri-

form, extending somewhat beyond the head. Abdomen with white bands. Legs whitish. Fore wings somewhat elongated, whitish along the costa, and along the basal half of the interior border, with three white lines; first line slender, much curved; second interrupted; third extremely bent, and thereby with its hind part approaching very near the second. Hind wings white at the base and with two white lines; first line interrupted in front; second much abbreviated hindward. Length of the body 3 lines; of the wings 7 lines.

This species, on account of the structure of the palpi, should perhaps be separated from *Desmia*.

a. United States. Presented by E. Doubleday, Esq.

West Indies.

3. Desmia orbalis.

Mas. *Nigro-fusca; antennæ longæ, pubescentes, squamosæ; abdomen segmentis albo marginatis, subtus album; alæ violaceo tinctæ; anticæ maculis duabus magnis opalino-albis, 1a punctoque exteriore contiguis, 2a costam attingente, fimbria albo interlineata; posticæ fascia latissima obliqua trigona opalino alba nigro marginata strigam nigram arcuatam includente, fimbria alba lineam nigram includente.*

Ædiodes orbalis, *Guen. Delt. et Pyral.* 192, 128.

Cayenne.

a—c. St. Domingo. From Mr. Tweedie's collection.
d. Jamaica. From Mr. Gosse's collection.

4. Desmia Pelealis.

Fœm. *Ferrugineo-fusca, corpore subtus pedibusque albis; alæ linea obliqua tenui subrecta alba; anticæ non elongatæ, linea interiore alba non obliqua, linea communi apud costam dilatata et retracta; litura discali alba semihyalina varia; posticæ fascia exteriore viridi metallica.*

Female. Ferruginous-brown, cinereous-brown beneath. Body beneath and legs white. Wings with an oblique slender almost straight white line, which is retracted and dilated by the costa of the

fore wings; fringe white, brown at the base. Fore wings not prolonged, with a white upright line near the base; discal mark white, semihyaline, narrow, attenuated in front. Hind wings with a metallic-green band along the hind side of the exterior line. *Var.* β.—Discal mark not narrower in front. *Var.* γ.—Discal mark much larger. *Var.* δ.—Discal mark small, narrow, a little broader in front. Length of the body 4—5 lines; of the wings 10—12 lines.

a—c. St. Domingo. From Mr. Tweedie's collection.
d. Santarem. From Mr. Bates' collection.
e. Venezuela. From Mr. Dyson's collection.

5. Desmia Ceresalis.

Mas. *Nigra, subtus alba nigro fasciata; antennæ ante medium nodosæ, apices versus contortæ et subserratæ; abdomen fascia basali strigisque duabus apicalibus albis; alæ purpureo-nigræ; anticæ elongatæ basi, albo conspersæ, maculis tribus subcostalibus inæqualibus punctoque discali opalino-albis; posticæ fascia interiore maculaque transversa exteriore opalino-albis.*

Male. Black; under side white, with black bands. Antennæ before the middle nodose, contorted and slightly serrated beyond. Abdomen with a white band near the base; hind borders of the segments white; two white apical streaks. Tibiæ with white streaks; tarsi white. Wings purplish black. Fore wings much prolonged, with some white flecks at the base, and with three white-opaline subcostal spots; the second spot much larger than the first and much smaller than the third, and having behind it a white-opaline point; fringe white by the interior angle. Hind wings with an irregular band near the base, and with a transverse spot beyond white-opaline; fringe white at the tips. Length of the body 6 lines; of the wings 12 lines.

a. Jamaica. From Mr. Gosse's collection.

South America.

A. Alæ anticæ elongatæ.
A. Alæ anticæ costa nigra.
a. Alæ posticæ fascia non interlineata.
a. Alæ posticæ bimaculatæ.

i. Alæ posticæ maculis non connexis.
* Alæ anticæ apice nigræ. - funebralis, *Guen.*
** Alæ anticæ apice albæ. - - Clytialis, *Walk.*
ii. Alæ posticæ maculis connexis. - strigivitralis, *Guen.*
b. Alæ posticæ unifasciatæ.
i. Alæ anticæ fimbria apice nigra.
* Abdomen apice albo non lineatum. flebilialis, *Guen.*
** Abdomen apice albo bilineatum. - ploralis, *Guen.*
ii. Alæ anticæ fimbria apice alba. - sepulchralis, *Guen.*
B. Alæ posticæ fascia interlineata.
a. Alæ anticæ non punctatæ. - - Tagesalis, *Cram.*
b. Alæ anticæ bipunctatæ. - - - Ufealis, *Cram.*
B. Alæ anticæ costa flava. - - - intermicalis, *Guen.*
B. Alæ anticæ non elongatæ. - - - Canacealis, *Walk.*

6. Desmia funebralis.

Fœm. *Cupreo-nigra; pectus albidum; abdomen fascia basali squamisque nonnullis posticis albis; alæ anticæ maculis duabus discalibus, 1a apud medium arctata, 2a acute ovali, fimbria apud angulum interiorem alba; posticæ fascia basali maculaque antica discali albis.*

Desmia funebralis, *Guen. Delt. et Pyral.* 190, 124.

a. Villa Nova. From Mr. Bates' collection.
b. Ega. From Mr. Bates' collection.
c. ———— ?

Var.? Fœm. *Cupreo-nigra; caput subtus pectusque anticum alba; abdomen fascia basali tribusque subtus albis; alæ anticæ maculis duabus transversis semihyalinis albis, 1a utrinque incisa, 2a subelliptica; posticæ fascia basali maculaque exteriore subquadrata albis semihyalinis.*

Female. Cupreous-black. Head beneath and fore part of the pectus white. Abdomen with a white band near the base; under side with three white bands, of which the hindmost is broader than the others. Tarsi white. Fore wings with two transverse semihyaline white spots, of which the interior one is notched on each side in the middle, and the exterior one is irregularly elliptical. Hind wings with a white semihyaline band near the base and with an exterior subquadrate white semihyaline spot, which is near the costa.

This may be a local variety of *D. flebilialis*. Length of the body 4½ lines; of the wings 9 lines.

d. Honduras. From Mr. Dyson's collection.

7. DESMIA SEPULCHRALIS.

Fœm. *Violaceo-nigra; pectus antice album; alæ anticæ maculis duabus albo-hyalinis, 2a semilunari, fimbria apud apicem et apud angulum interiorem alba; posticæ macula una interiore alba lineolam posticam emittente, fimbria apud angulum interiorem alba.*

Desmia sepulchralis, *Guen. Delt. et Pyral.* 190, 123.

Cayenne.

8. DESMIA FLEBILIALIS.

Cupreo-nigra; caput subtus pectusque anticum alba; abdomen albo bifasciatum, subtus album; tarsi albi; alæ anticæ maculis duabus transversis (interiore extus incisa) albo-hyalinis; posticæ maculis duabus (interiore attenuata) albo-hyalinis.

Ædiodes flebilialis, *Guen. Delt. et Pyral.* 191, 126.

Cayenne.

Var.? Fœm. *Nigra, capite subtus, pectore antico ventreque albis; tibiæ anticæ basi albæ; abdomen albo bifasciatum, subtus nigro quadrifasciatum; tarsi albi; alæ anticæ maculis duabus elongatis transversis opalino-albis; posticæ fascia elongata opalino-alba.*

Female. Black. Head beneath, fore part of the pectus and abdomen beneath white. Abdomen with two white bands, and with two white streaks towards the tip, which is also white; under side with four black bands and with a testaceous tip. Fore tibiæ white at the base. Tarsi white. Wings with a whitish marginal line; fringe white, black at the base. Fore wings with two transverse elongated opaline spots. Hind wings with an opaline band, which forms an angle on the hind side, and is narrower towards the interior border. Length of the body 4 lines; of the wings 9 lines.

a. Ega. From Mr. Bates' collection.

9. Desmia ploralis.

Mas. D. flebiliali *affinis, major; antennæ pubescentes, subsetosæ; abdominis segmentum apicale albo bilineatum; alæ posticæ fascia apud medium dilatata.*

Ædiodes ploralis, *Guen. Delt. et Pyral.* 192, 127.

Cayenne. Brazil.

a, ——— ?

10. Desmia intermicalis.

Fœm. *Nigro-fusca, aureo nitens; alæ fimbria flavescente-alba nigro interlineata; anticæ costa flava, maculis duabus magnis opalino-albis; posticæ fascia obliqua opalino-alba e linea serpentina nigra extus marginata.*

Ædiodes intermicalis, *Guen. Delt. et Pyral.* 192, 129.

Brazil.

11. Desmia strigivitralis.

Mas. *Nigra; abdomen fuscum, apice flavescens; alæ angustæ, albo bimaculatæ; anticæ auratæ, maculis remotis postice denticulatis; posticæ maculis connexis.*

Ædiodes strigivitralis, *Guen. Delt. et Pyral.* 193, 130.

Brazil.

12. Desmia Clytialis.

Mas. *Nigra; caput apud oculos et subtus, antennæ apice, pectus abdominisque fascia argenteo-alba; tarsi albo fasciati; alæ fimbria apice et apud angulum interiorem alba; anticæ maculis duabus magnis transversis semihyalinis albis; posticæ maculis duabus albis semihyalinis, una basali, altera discali subrotunda.*

Male. Black. Head about the eyes, at the base of the antennæ and beneath, and pectus silvery white. Antennæ silvery white towards the tips. Abdomen with a silvery white band beyond the middle. Tarsi with white bands. Wings with the fringe white at the tips, and by the interior angle. Fore wings with two large transverse semihyaline white spots. Hind wings with a white semihyaline spot at the base, and another in the disk; the latter one

nearly round, and opposite the interior one of the fore wings. Length of the body 3½ lines; of the wings 6½ lines.

a. Villa Nova. From Mr. Bates' collection.

13. DESMIA TAGESALIS.

Nigra; caput subtus pectusque anticum alba; abdomen strigis duabus apicalibus albis, ventre pedibusque ex parte albidis; alæ cupreo purpureoque tinctæ; anticæ maculis duabus oblongis transversis opalino-albis, 1a extus incisa; posticæ fascia opalino-alba ex parte interlineata.

Phalæna Tages, *Cram. Pap. Exot.* ii. 2, pl. 97, f. D.
Phalæna funerata, *Fabr. Ent. Syst.* iii. 2, 210, 302.
Hyalitis Tagesalis, *Guen. Delt. et Pyral.* 291, 292.

a. Ega. From Mr. Bates' collection.

14. DESMIA UFEALIS.

D. Tagesali *simillima; alæ anticæ macula* 1a *margines attingente,* 2a *costam attingente, punctis duobus intermediis albis.*

Phalæna Ufeus, *Cram. Pap. Exot.* ii. 2, pl. 92, f. E.
Hyalitis Ufealis, *Guen. Delt. et Pyral.* 291, 293.

Surinam.

This species is considered by Fabricius as a variety of the preceding one, and it probably is so; their larvæ feed on aquatic plants.

15. DESMIA CANACEALIS.

Fœm. *Ferrugineo-fusca; abdomen albo fasciatum; alæ fasciis duabus indistinctis cinereis; anticeæ linea interiore alba subarcuata vix obliqua, linea exteriore albida undulata apud costam dilatata, reniformi alba parva angusta obliqua; posticæ linea interiore alba recta obliqua.*

Female. Ferruginous-brown, cinereous-brown beneath. Body whitish beneath. Tegulæ of the thorax long, dark brown. Abdomen with slender white bands. Wings with two indistinct cinereous bands; a row of black marginal points between an interrupted white line and a broader complete testaceous line; fringe white, except at the base. Fore wings with a slightly curved almost upright interior white line, and with an exterior undulating whitish line, which

expands into a white costal streak; reniform mark white, small, narrow, oblique. Hind wings with an interior white line more straight and oblique than that of the fore wings. Length of the body 3½ lines; of the wings 9 lines.

a. Pernambuco. Presented by J. P. G. Smith, Esq.

Africa.

16. Desmia afflictalis.

Atra, subtus alba nigro fusciata, thoracis macula postica abdominisque fasciæ duæ albæ; alæ maculis duabus, punctis paucis fimbriaque apud angulos albis.

Desmia afflictalis, *Guen. Delt. et Pyral.* 190, 125.

Abyssinia.

a, *b*. Congo. Presented by Sir J. Richardson.
c. Sierra Leone. From Mr. Foxcroft's collection.
d. Ceylon. Presented by R. Templeton, Esq.
e. North China. From Mr. Fortune's collection.
f. China. Presented by G. T. Laye, Esq.
g. ——— ?

Asia.

A. Alæ posticæ basi obscuræ.
  A. Alæ posticæ bimaculatæ. - - - luctuosalis, *Guen.*
  B. Alæ posticæ unifasciatæ. - - - fascialis, *Cram.*
  C. Alæ posticæ unilineatæ. - - - concisalis, *Walk.*
B. Alæ posticæ basi albæ. - - - - Crithealis, *Walk.*

17. Desmia Crithealis.

Fœm. *Fusca, corpore subtus, capite, abdominis fasciis pedibusque albis; alæ æneo-fuscæ; anticæ non elongatæ, maculis duabus discalibus transversis opalino-albis, 1a antice attenuata, 2a intus convexa extus concava, linea exteriore tenui albida apud costam dilatata; posticæ dimidio fere basali albo semihyalino lituram fuscam includente, linea exteriore albida.*

Female. Brown. Head, under side and legs white. Abdomen with white bands. Wings with an æneous tinge. Fore wings not prolonged, with two white-opaline transverse discal spots; first spot

attenuated in front; second convex on the inner side, concave on the outer side, near which there is a slender whitish line, the latter dilated into a costal spot. Hind wings with nearly half the basal part white, semihyaline, containing a brown mark, and having near its border a whitish line. Length of the body 4 lines; of the wings 10 lines.

a. North China. From Mr. Fortune's collection.

18. DESMIA CONOISALIS.

Fœm. *Fuscescente-nigra, corpore subtus, capite, abdominis faseiis pedibusque albis; alæ anticæ squamosæ, subpurparascentes, non elongatæ, apud costam testaceæ, lineis duabus albidis subdenticulatis, linea subrecta, 2a valde flexa angulum acutum fingente macula intermedia transversa subcostali alba semihyalina, puncto exteriore discali albido; posticæ linea denticulata subinterrupta.*

Female. Brownish black, white beneath. Third joint of the palpi acutely conical, longer than in some species. Head white. Abdomen with whitish bands. Legs white. Wings with the fringe white at the tips and by the interior angle. Fore wings squamous, with a purplish tinge, not elongated, testaceous along the costa, except near the base, with two slightly denticulated whitish lines, between which there is a white semihyaline subcostal transverse spot; a whitish discal point near the exterior side of the latter; first line nearly straight; second line much bent, acutely angular. Hind wings with a denticulated slightly interrupted line, which corresponds to the second line of the fore wings. Length of the body 2½ lines; of the wings 6 lines.

a. Ceylon. From Mr. Stevens' collection.

19. DESMIA? FASCIALIS.

Nigra; alæ elongatæ, fascia obliqua alba semihyalina; anticæ striga exteriore attenuata et abbreviata.

Phalæna-Pyralis fascialis, *Cram. Pap. Exot.* iv. 236, pl. 398, f. O.

Japan.

20. DESMIA? LUCTUOSALIS.

Fœm. *Nigra; alæ violaceo nitentes; anticæ maculis tribus flavescente-albis, 1a disculi quadrata strigis duabus fuscis termi-*

nata, 2a majore subovata costam attingente 3aque parva postica e lineola flexuosa vix conspicua connexis; posticæ costa interiore maculisque duabus magnis discalibus flavescente-albis.

Hyalitis luctuosalis, *Guen. Delt. et Pyral.* 290, 291.

Hindostan?

Country unknown.

21. Desmia Opisalis.

Fœm. *Fusca, subtus alba; palpi suberecti, articulo 3o gracili brevissimo; abdomen albo fasciatum; tarsi antici apice nigri; alæ purpureo nitentes, linea interiore alba subarcuata, linea media alba interrupta abbreviata; anticæ non elongatæ, linea media bis dilatata, striga exteriore discali transversa alba; posticæ linea media apud discum dilatata.*

Female. Brown, with metallic purple, blue and green reflections, cinereous-brown beneath. Body beneath and legs white. Palpi almost vertical; third joint slender, very short. Abdominal segments with white hind borders. Fore tarsi with black tips. Wings with the interior line white, slightly curved; middle line interrupted, abbreviated at each end, with two slight dilatations in the fore wings and one in the hind wings; marginal line whitish, very slight; fringe with white tips. Fore wings not prolonged, with a white exterior transverse discal streak. Length of the body 5 lines; of the wings 13 lines.

a. ——— ? From Mr. Foxcroft's collection.

22. Desmia Prognealis.

Fœm. *Nigra, subtus alba; abdomen apice album; nigro bistrigatum; alæ fimbria alba fusco interlineata; anticæ elongatæ, fasciis duabus punctoque intermedio opalino-albis, fascia interiore apud medium coarctata, exteriore abbreviata; posticæ fascia opalino-alba valde dilatata ex parte interlineata.*

Female. Black, white beneath. Abdomen white at the tip, with a black streak on each side. Wings with a white fringe, which is interlined with brown. Fore wings much prolonged, with two white-opaline bands, of which the interior one is contracted and angular in the middle, and has a white point on the outer side; the

outer one much abbreviated hindward. Hind wings with one band, which is much dilated, and is partly divided by a brown streak, the latter being abbreviated in front. Length of the body 5½ lines; of the wings 11 lines.

a. ——— ?

23. DESMIA? ARCTALIS.

Mas. et fœm. *Nigra; abdomen annulis posticis perangustis albis; alæ violaceo nitentes, lineis duabus albis semihyalinis ex parte dilatatis; anticæ puncto lunulaque discalibus albis; posticæ striga discali obscura indistincta*

Hyalitis arctalis, *Guen. Delt. et Pyral.* 290, 290.

Genus 4. ÆDIODES.

Corpus vix robustum. Frons plana. Proboscis brevis, gracilis. Palpi breves, validi, erecti, subarcuati; articulus 3us conicus, minimus. Antennæ longæ, subsetosæ. Abdomen carinatum. Pedes longiusculi, sat validi, calcaria longissima; tibiæ anticæ brevissimæ. Alæ longiusculæ, sat angustæ, sæpissime nigræ maculis albis semihyalinis; anticæ lanceolatæ. *Mas.*—Abdomen attenuatum, compressum, acuminatum, alas posticas longe superans. *Fœm.*—Abdomen robustum, apice obtusum.

Ædiodes, *Guen. Delt. et Pyral.* 191.

Body moderately stout. Front flat. Proboscis short, slender. Palpi short, stout, vertical, slightly curved, applied to the head; third joint conical, very small. Antennæ long, with two very minute setæ on each joint. Abdomen keeled. Legs rather long and stout; spurs very long; fore tibiæ very short. Wings rather long and narrow, generally black, with white semihyaline spots. Fore wings lanceolate. *Male.*—Abdomen attenuated, compressed, acuminated at the tip, extending much beyond the hind wings. *Female.*—Abdomen robust, shorter, terminating abruptly.

Asia.

2. ÆDIODES FLAVIBASALIS.

Cinerea; thorax, abdomen basi alæque basi straminea, ochraceo guttata; alæ purpureo cupreoque tinctæ, fascia lata obliqua

alba opalina semihyalina nigro submarginata ; anticæ costa ex parte ochracea, fascia postice valde attenuata.

Ædiodes flavibasalis, *Guen. Delt. et Pyral.* 193, 134.

Hindostan.

a. Ceylon. From Mr. Stevens' collection.
b. Sarawak, Borneo. From Mr. Wallace's collection.

2. Ædiodes effertalis.

Fœm. *Læte ochracea, subtus pallide flava ; palpi nigricante-fusci, arcuati, subtus dense fasciculati, articulo 3o securiformi ; thorax albo maculatus ; abdomen fasciis trigonis albis, apicem versus fuscescens, alas posticas longe superans ; pedes antici nigricante fasciati ; alæ purpureæ, basi ochraceæ albo variæ, lineis duabus indistinctis undulatis nigricantibus, linea exteriore valde flexa ; anticæ margine exteriore perobliquo, reniformi e litura lanceolata albida ochraceo marginata ; posticæ costa margineque exteriore pallide flavis.*

Female. Bright ochraceous, pale yellow beneath. Head white in front. Palpi blackish brown, curved ; broadly and very densely tufted beneath, white beneath at the base ; third joint securiform. Thorax with white spots of various size. Abdomen extending far beyond the hind wings, with nearly triangular white bands ; apical third part brown. Fore legs with blackish bands. Wings purple, except towards the base, where they are varied with white ; two indistinct undulating blackish lines ; the exterior one much bent ; fringe black, partly pale yellow ; marginal line black. Fore wings extremely oblique along the exterior border ; reniform mark indicated by a lanceolate whitish mark with a bright orange border. Hind wings pale yellow along the costa and more broadly so along the interior border. Length of the body 4½ lines ; of the wings 9 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Australia.

3. Ædiodes Amathealis.

Mas. *Flava ; caput, thorax alæque basi ochraceo-notata ; antennæ submoniliformes, pubescentes, nigro annulatæ ; alæ cinereæ, purpureo glaucoque nitentes ; anticæ linea interiore fusca*

angulosa, linea media albida diffusa, linea exteriore fusca flavo ochraceoque marginata, reniformi e punctis duobus nigris elongatis; posticæ margine interiore testaceo piloso.

Male. Yellow, testaceous beneath. Head, thorax, and wings towards the base with ochraceous marks. Antennæ submoniliform, with black rings, very pubescent. Wings except towards the base cinereous, with purple and glaucous reflections. Wings with an interrupted black marginal line; fringe whitish. Fore wings with a brown zigzag line limiting the yellow part, and having a diffuse whitish line between it and a more irregular exterior brown line, which is accompanied with yellow and orange; two black elongated points indicating the reniform mark in the whitish band. Hind wings testaceous and pilose along the interior border. Length of the body 4—4½ lines; of the wings 9—10 lines.

a—c. Moreton Bay. From Mr. Diggles' collection.

Genus 5. SAMEA.

Corpus sat gracile. Proboscis valida, brevis. Palpi breves, porrecti, caput vix superantes; articulus 3us truncatus, brevissimus. Palpi maxillares obsoleti. Abdomen alas posticas superans. Pedes sat graciles, calcaribus longissimis. Alæ oblongæ, angustæ, semihyalinæ, subreticulatæ; anticæ elongatæ, acutæ, lituris discalibus bene determinatis. *Mas.*—Antennæ pubescentes. Abdomen attenuatum, nonnunquam fasciculis duobus lateralibus.

Samea, *Guen. Delt. et Pyral.* 193.

Body rather slender. Proboscis stout, short. Palpi short, straight, hardly extending beyond the head; third joint truncated, very short. Maxillary palpi obsolete. Antennæ simple, pubescent in the male. Abdomen extending some distance beyond the hind wings, in the male attenuated and in some species furnished with a curled tuft of hairs on each side. Legs rather slender; spurs extremely long. Wings oblong, narrow, semihyaline, more or less coloured about the veins and about the borders. Fore wings prolonged towards the acute tips; discal marks very distinct; some black points along the exterior part of the costa.

North America.

A. Alæ anticæ elongatæ.
  A. Alæ albidæ.
    a. Alæ ex parte flavescentes. - - - - ecclesialis, *Guen.*
    b. Alæ non flavescentes. - - - - castellialis, *Guen.*
  B. Alæ flavescentes.
    a. Alæ late marginatæ. - - - - Elealis, *Walk.*
    b. Alæ vix late marginatæ. - - - ebulealis, *Guen.*
B. Alæ anticæ valde elongatæ. - - - hurónalis, *Guen.*

1. Samea ecclesialis.

Stramineo-alba; thorax anticus fusco notatus; alæ lineolis variis margineque exteriore ex parte fuscis, fimbria fusco notata; anticæ orbiculari et reniformi subquadratis bene determinatis, punctis costalibus exterioribus elongatis nigro-fuscis. Mas.— *Abdomen fasciculis duobus lateralibus nigricantibus.*

Samea ecclesialis, *Guen. Delt. et Pyral.* 194, 132.

a—d. Venezuela. From Mr. Dyson's collection.
e. Honduras. From Mr. Dyson's collection.
f, g. Ega. From Mr. Bates' collection.
h. Santarem. From Mr. Bates' collection.
i. Villa Nova. From Mr. Bates' collection.
j. Jamaica. From Mr. Gosse's collection.
k. ———? From Mr. Milne's collection.
l. ———?

2. Samea castellialis.

Albido-cervina; abdomen maris fasciculis duobus lateralibus nigro-fuscis; alæ albido hyalinæ, cervino marginatæ; anticæ lineis tribus flexuosis maculis duabus discalibus unaque postica subquadratis cervinis; posticæ lineis duabus cerninis, 1a recta antice dilatata, 2a flexuosa.

Samea castellialis, *Guen. Delt. et Pyral.*. 195, 133.

This species seems to be hardly distinct from *S. ecclesialis*.

North America.

a, b. Venezuela. From Mr. Dyson's collection.
c. Honduras. From Mr. Dyson's collection.
d. Rio Janeiro.

3. SAMEA EBULEALIS.

Flava; thorax antice fusco-purpureus; alæ nitentes, lineis margineque exteriore denticulatis fusco-purpureis, linea marginali flava; anticæ costa fusco-purpurea, lineis tribus, 1a et 2a costam versus dilatatis; posticæ lineis duabus, 1a apud costam dilatata.

Samea ebulealis, *Guen. Delt. et Pyral.* 196, 136.

North America. Brazil.

a, b. Honduras. From Mr. Miller's collection.
c, d. Honduras. From Mr. Dyson's collection.

4. SAMEA HURONALIS.

Mas et fœm. *Alba; antennæ subpubescentes; abdomen flavescens, incisuris albis; alæ anticæ hyalinæ, angustæ, valde lanceolatæ, margine venis liturisque pallidissime flavescente-cineris, basi flavescentes, maculis discalibus maximis quadratis disco flavescentibus; posticæ trigonæ, margine vago.*

Samea huronalis, *Guen. Delt. et Pyral.* 198, 141.

Canada.

5. SAMEA ELEALIS.

Fœm. *Flava; abdominis segmenta albo marginata; alæ margine exteriore latissimo lineisque tribus denticulatis, fuscescente purpureis, linea 3a valde denticulata; anticæ maculis tribus subquadratis fuscescente-purpureis; posticæ linea 2a latiuscula, antice dilatata.*

Female. Abdominal segments with white hind borders. Wings with three denticulated lines, and with a very broad marginal band brownish purple; exterior line much bent. Fore wings with three subquadrate brownish purple spots; the third behind the first, which corresponds to the orbicular mark. Hind wings with the second line rather broad, dilated towards the costa. Length of the body 4 lines; of the wings 10 lines.

a. United States. Presented by E. Doubleday, Esq.

West Indies.

6. Samea Jarbusalis.

Fœm. *Alba; thorax luteo notatus; abdomen luteo fasciatum; alæ semihyalinæ, ex parte aurato-fluvescentes; anticæ lineis septem deviis pallide fuscis, nonnullis postice connexis, lituris anticis testaceis, linea submarginali diffusa strigas emittente, linea marginali obscure fusca; posticæ lineis tribus.*

Female. White. Thorax with pale luteous marks. Abdomen with pale luteous bands. Wings shining, semihyaline, partly and slightly tinged with pale gilded yellow. Fore wings with seven very irregular pale brown lines, which are mostly connected hindward, and include between them in front three testaceous marks; submarginal line rather diffuse, emitting streaks to the border, where there is a dark brown line. Hind wings with three lines; submarginal one like that of the fore wings. Length of the body 5 lines; of the wings 10 lines.

a—*c*. St. Domingo. From Mr. Tweedie's collection.

7. Samea Acestealis.

Mas. *Purpurascente-fusca, subtus albida; abdominis segmenta albo marginata; alæ fasciis tribus pallide flavis valde indeterminatis postice abbreviatis, lineis duabus deviis lineaque marginali obscure purpurascente-fuscis, fimbria interlineata; anticæ linea exteriore obscura, orbiculari et reniformi purpurascente-fuscis vacuis, hac arcuata, illa magna oblonga.*

Male. Purplish brown. Body whitish beneath. Hind borders of the abdominal segments white. Wings except towards the exterior border mostly pale yellow, which hue forms three very irregular bands; the latter are abbreviated hindward; two irregular dark purplish brown lines, and a marginal line of the same hue; fringe interlined. Fore wings with a third and more exterior dark line; orbicular and reniform marks purplish brown, void; the former large, oblong; the latter lunulate. Length of the body 4 lines; of the wings 8 lines.

a. *b*. St. Domingo. From Mr. Tweedie's collection.

8. Samea Medealis.

Mas. *Alba, ex parte testacea; thorax purpureo bifasciatus; abdominis segmenta argenteo marginata; alæ testaceæ, lineis quatuor, variis purpurascente-nigris fasciisque duabus deviis albis, linea 4a marginali, anticæ lineis 2a et 3a valde flexis, hac strigas duas emittente, lituris costalibus purpurascente-nigris, orbiculari et reniformi purpurascente-nigris pallido notatis, hac subquadrata, illa oblonga.*

Male. White, partly testaceous. Thorax with two purple bands; the fore one broad. Abdominal segments with silvery white hind borders. Wings shining, testaceous, with four purplish black various lines, and with two irregular white bands; fourth line marginal; fringe pale. Fore wings with the second line extremely bent; third line much bent, emitting two streaks to the exterior border; costa with some purplish black marks; orbicular and reniform marks purplish black, with pale disks, the former oblong, the latter subquadrate. Hind wings with the lines less bent than in the fore wings. Length of the body 2½ lines; of the wings 6 lines.

a, *b*. St. Domingo. From Mr. Tweedie's collection.

South America.

A. Alæ flavæ.
- *A*. Alæ fimbria non notata. - - - oriolalis, *Guen.*
- *B*. Alæ fimbria notata.
  - a. Alæ anticæ trilineatæ.
    - *a*. Alæ posticæ linea exteriore valde denticulata. liparalis, *Guen.*
    - *b*. Alæ posticæ linea exteriore vix denticulata. matutinalis, *Guen.*
  - b. Alæ anticæ bilineatæ. - - - botydalis, *Guen.*

B. Alæ albæ.
- *A*. Alæ costa non guttata. - - - Zinghalis, *Walk.*
- *B*. Alæ anticæ costa nigro guttata. - melicertalis, *Walk.*

9. Samea liparalis.

Fœm. *Stramineo-flava; abdomen stramineo-cinereum suturis albidis; alæ semihyalinæ, margine lato lineaque submarginali sinuatis cinereis, fimbria flavo cinereoque interlineata; anticæ*

basi, costa, maculisque discalibus cinereo conspersis; reniformi flava notata; posticæ linea exteriore interrupta.

Samea liparalis, *Guen. Delt. et Pyral.* 195, 134.

Brazil.

Var.? Yellow. Thorax cinereous in front. Wings with a broad cinereous exterior border; marginal line palé; fringe pale cinereous, darker at the base. Fore wings fawn-colour along the costa, cinereous at the bsse and along part of the interior border; three cinereous lines; first almost straight; second and third denticulated; second proceeding from the reniform mark; third joining at each end the broad border, with which it is also connected by streaks along the veins; an interior band formed by two large subquadrate spots; reniform mark subquadrate. Hind wings with two lines, corresponding to the first and third of the fore wings; the second being almost obsolete. Length of the body 6 lines; of the wings 12 lines.

a. ——— ? From Mr. Lamb's collection.

10. Samea matutinalis.

Var.? *Flava; caput et thorax fuscescente-purpurea; alæ apud marginem exteriorem latissime fuscescente-purpureæ, linea marginali flava; anticæ basi, costa, margine interiore ex parte lineis tribus denticulatis maculisque tribus subquadratis fuscescente-purpureis; posticæ lineis duabus fuscescente-purpureis, 1a latiuscula, 2a valde denticulata.*

Samea matutinalis, *Guen. Delt. et Pyral.* 195, 135.

Cayenne.

Var.? Yellow. Head and thorax brownish purple. Wiugs with a very broad brownish purple border; marginal line yellow. Fore wings with the base, the costa and most of the interior border brownish purple; three denticulated lines of that hue; the third joining the marginal band; an interior band of the same composed of two subquadrate spots; the reniform mark also subquadrate, and emitting the second line. Hind wings with two lines; the first rather broad; the second much denticulated, and joining the marginal band hindward. *Var.* β.—Spots and lines of the fore wings much diminished. Length of the body 5—6 lines; of the wings 12—14 lines.

a. Parà. From Mr. Bates' collection.
b. Rio Janeiro. From Mr. Lamb's collection.
c. Ega. From Mr. Bates' collection.

11. SAMEA ORIOLALIS.

Fœm. *Flava, subtus alba; alæ margine lato integro subdenticulato violaceo-cinereo, lineis duabus interruptis sinuatis nigricantibus, fimbria cinerea; anticæ orbiculari maculaque posteriore rotundatis, reniformis disco violaceo-cinereo.*

Samea oriolalis, *Guen. Delt. et Pyral.* 196, 137.

Cayenne.

12. SAMEA BOTYDALIS.

Mas et fœm. *Flava; antennæ subpubescentes, abdomen apicem versus cinerascens; alæ lituris nigricante-cinereis violaceo micantibus, linea basali apud costam dilatata, linea interiore postice dilatata, linea submarginali dentata, fascia marginali nigricante apud marginem cinerea, maculis discalibus quadratis, reniformi lineam dentatam emittente; posticæ litura discali lineisque duabus, 2a sinuata et dentata.*

Samea botydalis, *Guen. Delt. et Pyral.* 197, 140.

Brazil.

13. SAMEA ZINGHALIS.

Fœm. *Alba, ferrugineo fasciatæ; alæ longæ, angustæ, subhyalinæ, fimbria fusco notata; anticæ fasciis quatuor ex parte fusco marginatis costaque ferrugineis, fasciis 2a 3aque interruptis, lineis duabus fuscis, interiore angulata, exteriore latiore subundulata, fascia 4a marginali postice attenuata; posticæ lineis duabus interruptis perangustis, linea marginali apicibusque fuscescentibus.*

Female. White. Disk of the head and bands of the thorax and of the abdomen cinnamon-colour. Wings long and narrow, nearly hyaline; fringe with brownish dots. Fore wings with the costa and with four partly brown-bordered bands cinnamon-colour; a slender angular brown line between the first band and the second, which like the third is interrupted; a broader slightly undulating brown line near the fourth band, which is marginal and is narrow hindward. Hind wings with two interrupted and very slender brownish lines; tips and marginal line also brownish. Length of the body 4 lines; of the wings 9 lines.

a. Venezuela. From Mr. Dyson's collection.

14. SAMEA MELICERTALIS.

Fœm. *Alba; thoracæ guttis nonnullis anticis testaceis nigro notatis; alæ fere hyalinæ, lineis tribus angustis deviis pallide fuscis, linea submarginali pallidiore diffusa; anticæ punctis basalibus et costalibus nigris, orbiculari et reniformi subquadratis vacuis pallide fusco marginatis; posticæ linea 1a annulum anticum fingente.*

Female. White. Thorax in front with some testaceous black-marked dots. Wings nearly hyaline, with three slight irregular pale brown lines; a paler and more indistinct and diffuse submarginal line; marginal line darker. Fore wings with black points at the base and along the costa; two void, subquadrate, pale brown-bordered marks representing the orbicular and the reniform. Hind wings with the first line forming a ringlet in front. Length of the body 4 lines; of the wings 9 lines.

a. Venezuela. From Mr. Dyson's collection.

Asia.

15. SAMEA GEOGRAPHICALIS.

Mas. *Stramineo-flava*, S. matutinali *quoad lituras similis; alæ margine lato nigro-fusco subaurato magis sinuato; anticæ margine latiore, maculis discalibus vacuis violaceo-cinereo notatis, orbiculari lineam emittente, lituris duabus cinereis, una basali, altera discali; posticæ margine valde denticulato.*

Samea geographicalis, *Guen. Delt. et Pyral.* 197, 138.

Hindostan?

16. SAMEA CONTINENTALIS.

Mas. S. geographicali *valde affinis; alæ saturatiores, margine latiore; anticæ costa nigricante excavata, maculas discales tegente, basi maculaque discali interiore fuscis; posticæ margine latissimo dentato.*

Samea continentalis, *Guen. Delt. et Pyral.* 197, 139.

Hindostan?

17. SAMEA GRATIOSALIS.

Mas. *Rosea, flavo varia, subtus flavescente-alba roseo ex parte nebulosa; palpi subtus albi, articulo 3o conico brevissimo; abdomen alas posticas superans; alæ fasciis duabus abbreviatis vitreis; anticæ apice subrotundatæ, margine exteriore perobliquo; posticæ fascia 1a minima, 2a lata valde abbreviata.*

Male. Rose-colour, irregularly varied with yellow, yellowish white and partly clouded with rose-colour beneath. Palpi white beneath; third joint conical, not more than one-fourth of the length of the second. Abdomen extending rather beyond the hind wings. Fore wings slightly rounded at the tips, very oblique along the exterior border, with two irregular abbreviated vitreous bands. Hind wings with two yet more irregular vitreous bands; the first very short and narrow; the second broad, much abbreviated hindward. Length of the body 3½ lines; of the wings 8 lines.

a b. Ceylon. Presented by R. Templeton, Esq.

Genus 6. SALBIA.

Corpus gracile. Palpi breves, compressi, squamoso hirsuti, subascendentes; articulus 3us brevissimus. Palpi maxillares obsoleti. Antennæ aut simplices aut triente basali contorta fasciculata. Abdomen elongatum, apice valde acutum. Alæ nitentes, lineis non diversis; anticæ oblongæ; posticæ angulo interiore non elongato.

Salbia, *Guen. Delt. et Pyral.* 198.

Body slender. Palpi short, compressed, squamous hirsute, slightly ascending; third joint very short. Maxillary palpi obsolete. Antennæ of the male in some species simple and bare, in others with one-third of the length from the base contorted and furnished with tufts of hairs. Abdomen elongated, with bands or with various colours; apical segment produced into a very acute point and often marked. Wings shining, with like lines. Fore wings oblong. Hind wings with the interior angle rounded.

West Indies.

1. Salbia Lauralis.

Mas. *Flava; palpi suberecti, articulo 3o conico minuto; antennæ dimidio basali subcontorto subincrassato valde pubescente, dimidio apicali convoluto; thorax antice ochraceo notatus; abdomen luteum, lineis duabus lateralibus fasciaque subapicali nigris, strigis duabus apicalibus argenteis e linea nigra divisis; alæ flavescente-albæ, semihyalinæ, margine lato cupreofusco, linea marginali flava; anticæ costa lutea, lineis sex purpurascente-fuscis, linea sexta valde flexa, orbiculari subquadrata sat magna, reniformi lineolam arcuatam testaceam includente; posticæ trilineatæ.*

Male. Yellow, whitish beneath. Antennæ slightly contorted and incrassated and very pubescent from the base to half the length, where they are much dilated and contorted, convoluted from thence to the tips. Thorax with dull ochraceous marks in front. Palpi nearly vertical; third joint conical, minute. Abdomen extending far beyond the hind wings, luteous and with two lateral black lines except towards the base; a black band near the tip, where there are two silvery white streaks divided by a black line. Wings yellowish white, semihyaline; a broad cupreous-brown border; a yellow marginal line; fringe whitish, black at the base. Fore wings luteous along the costa, with six brownish purple lines; five lines nearly straight; the fifth dilated exteriorly in front, where it includes the reniform mark, the latter with a testaceous curved line in its disk; sixth line much bent; orbicular mark brownish purple, subquadrate, rather large. Hind wings with three lines; the second joining the first in front, abbreviated hindward, where it joins the third. Length of the body 5½—6 lines; of the wings 15—16 lines.

a, *b*. St. Domingo. From Mr. Tweedie's collection.
c. St. Domingo.
d, *e*. Venezuela. From Mr. Dyson's collection.
f. Ega. From Mr. Bates' collection.

2. Salbia Prosopealis.

Mas. *Rufescente-purpurea; antennæ apud medium subnodosæ, dimidio basali recto pubescente, dimidio apicali convoluto; alæ maculis vitreis luteo fusco que ex parte marginatis guttisque nonnullis luteis; anticæ quadrimaculatæ; posticæ maculis tribus plus minusve connexis.*

Male. Reddish purple, whitish beneath. Antennæ straight and pubescent to nearly half the length, where there is a slight knot, convoluted from thence to the tips. Abdomen extending far beyond the hind wings. Wings with vitreous spots, which are partly bordered with luteous and with brown. Fore wings luteous along the costa; first, second and third spots in a line near the costa; fourth obliquely behind the third, the intervening space being occupied by five luteous dots; a luteous dot obliquely behind the fourth spot. Hind wings with three large more or less connected spots, and with some hindward exterior luteous dots. Length of the body 5 lines; of the wings 10 lines.

a. Jamaica. From Mr. Gosse's collection.

South America.

A. Antennæ maris contortæ.
A. Antennæ maris fasciculatæ.
a. Abdomen albo cingulatum. - - flabellalis, *Guen.*
b. Abdomen non cingulatum. - - - cassidalis, *Guen.*
B. Antennæ non fasciculatæ. - - - - torsalis, *Guen.*
B. Antennæ non contortæ. - - - hæmorrhoidalis, *Guen.*

3. Salbia flabellalis.

Mas et fœm. *Pallide testaceo-cinerea; palpi longiusculi, subrecti; mari antennarum articulus 2us contortus, pilis ochraceis nigrisque fasciculatus; abdomen albo fasciatum, apice album fusco strigatum; alæ lineis interiore et exteriore arcuatis marginalique lituraque discali fuscis; anticæ linea exteriore retracta.*

Salbia flabellalis, *Guen. Delt. et Pyral.* 199, 142.

Brazil.

4. Salbia cassidalis.

Mas. *Pallide sericeo-cinerea; antennæ basi contortæ et fasciculatæ, articulo 1a longo flavescente squamoso; abdomen pallidum, pilis apicalibus nigris nonnullisque albis; alæ margine exteriore lineisque duabus arcuatis lunulaque discali obscurioribus; anticæ linea exteriore retracta.*

Salbia cassidalis, *Guen. Delt. et Pyral.* 199, 143.

Brazil.

5. SALBIA TORSALIS.

Mas. *Testaceo-cinerea; antennæ basi deviæ serratæ non fasciculatæ; abdomen litura apicali angulata argentea, lateribus fuscescentibus; tibiæ intermediæ pilosæ; alæ margine exteriore lineisque duabus arcuatis denticulatis; posticæ linea exteriore divisa, puncto apud angulum interiorem nigro.*

Salbia torsalis, *Guen. Delt. et Pyral.* 200, 144.

Cayenne.

6. SALBIA HÆMORRHOIDALIS.

Mas et fœm. *Ochraceo-flava; antennæ graciles, non setosæ; abdomen macula postica semilunari fusca argenteo marginata, apice rufescens lineis duabus lateralibus argenteis; alæ apud marginem exteriorem rufescentes, lineis concisis subrectis nigricantibus; anticæ trilineatæ; posticæ bilineatæ.*

Salbia hæmorrhoidalis, *Guen. Delt. et Pyral.* 201, 149.

Brazil.

Africa.

7. SALBIA TRAPEZALIS.

Mas. *Testaceo-cinerea; frons albo marginata; antennæ simplices, subglabræ; abdomen apicem versus squamoso pilosum, punctis quatuor apicalibus albis; alæ lineis tribus subrectis margineque exteriore lunulaque discali obscurioribus; anticæ linea 1a subflexa, 2a flexa, 3a incompleta.*

Salbia trapezalis, *Guen. Delt. et Pyral.* 200, 145.

Sierra Leone.

Asia.

8. SALBIA STRAMINALIS.

Mas et fœm. *Stramineo-alba; antennæ basi convolutæ non fasciculatæ, articulo 1o maximo squamoso; abdomen apicem versus macula fusca liturisque duabus albidis, alæ fusco conspersæ, lineis interiore et exteriore marginalique lunulaque discali fuscis.*

Salbia straminalis, *Guen. Delt. et Pyral.* 200, 146.

Coromandel.

9. Salbia medinalis.

Fœm. *Pallide ochraceo-flava; abdominis segmenta albo marginata; alæ linea margineque sat lato pallide cinereis; anticæ linea communi recta, linea 2a subarcuata lunulaque discali pallide cinereis; posticæ linea communi subundulata.*

Salbia medinalis, *Guen. Delt. et Pyral.* 201, 148.

Hindostan?

Australasia.

A. Antennæ simplices. - - - - diagonalis, *Guen.*
B. Antennæ triente basali contorta. - - - Althealis, *Walk.*
C. Antennæ triente basali recta.
A. Palporum articulus 3us non brevissimus. - Lenalis, *Walk.*
B. Palporum articulus 3us non brevissimus. - illectalis, *Walk.*

10. Salbia diagonalis.

Mas. *Sordide alba; antennæ simplices, subgranulatæ, non setosæ; abdomen cinereum, segmentis albo marginatis; alæ linea exteriore recta margineque lato pallide cinereis; anticæ costa pallide cinerea.*

Salbia diagonalis, *Guen. Delt. et Pyral.* 201, 147.

Java?

11. Salbia Althealis.

Mas. *Ochraceo-cervina; palpi validi, porrecti, pilosi; antennæ triente basali contorta incrassata subfasciculata, articulo 1o incrassato subcornuto; tibiæ anticæ subtus fasciculatæ; alæ punctis submarginalibus nigris, linea marginali pallida fimbria interlineata; anticæ elongatæ, acutæ, margine exteriore perobliquo.*

Male. Ochraceous fawn-colour, whitish testaceous beneath. Palpi stout, porrect, pilose; third joint elongate-conical, minute. Antennæ compressed, contorted, incrassated and slightly tufted from the base to nearly one-third of the length; first joint incrassated and with an appendage. Abdomen long, slightly compressed, extending far beyond the hind wings. Fore tibiæ tufted beneath. Wings with an incomplete submarginal row of black points; a pale

marginal line with a dark interior border; fringe interlined. Fore wings elongate, acute; exterior border very oblique. Length of the body 6 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

12. SALBIA? LENALIS.

Mas. *Fusca; palpi subarcuati, oblique ascendentes; articulus 3us lanceolatus, 2i dimidio brevior; antennæ pubescentes, triente basali valida recta apice subincrassata subfasciculata, articulo 1o incrassato; tibiæ anticæ brevissimæ, subtus fasciculatæ; alæ subpurpurascentes, lineis tribus cinereis undulatis indistinctis; anticæ apice rotundatæ, litura discali transversa subquadrata pallide flava.*

Male. Brown, whitish beneath. Palpi obliquely ascending, slightly curved; third joint lanceolate, less than half the length of the second. Antennæ pubescent, stout and straight from the base to one-third of the length, where they are slightly incrassated and tufted, slender and curved from thence to the tips; first joint incrassated. Abdomen somewhat tumid beyond the middle, extending far beyond the hind wings. Fore tibiæ very short, tufted beneath. Wings with a slight purplish tinge, and with three indistinct, undulating cinereous lines. Fore wings rounded at the tips; exterior border moderately oblique; a transverse subquadrate pale yellow discal mark. Length of the body 3½ lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

13. SALBIA? ILLECTALIS.

Mas. *Fuscescente-cinerea; palpi ascendentes, obtusi, articulo 3o brevissimo; antennæ pubescentes, triente basali recta sat valida apice arcuata subfasciculata; abdomen apicem versus tumidum, alas posticas longe superans; alæ fasciis duabus obscure fuscis flavo vage marginatis, linea marginali alba; anticæ apud costam flavæ, apice subrotundatæ, linea submarginali obscure fusca flavo extus marginata.*

Male. Brownish cinereous, whitish beneath. Palpi ascending, obtuse; third joint very short. Antennæ pubescent, straight and rather stout to full one-third of the length, where they are much curved and have a slight tuft, more slender, and slightly curved from thence to the tips. Abdomen tumid beyond the middle,

extending far beyond the hind wings. Legs white. Wings with two dark brown bands, which are largely and irregularly bordered with pale yellow; marginal line white; fringe cinereous. Fore wings mostly pale yellow along the costa, somewhat rounded at the tips, with a submarginal dark brown line, which is irregularly bordered with pale yellow on the outer side. *Female.*—Antennæ simple. Length of the body 4 lines; of the wings 9 lines.

a, *b*. Sarawak, Borneo. From Mr. Wallace's collection.

Australia.

14. Salbia? Amphicedalis.

Mas. *Cinereo-fusca, rude squamosa, nigro conspersa; palpi minuti; antennæ validæ, submoniliformes, pubescentes, bistriente basali recta fasciculo terminata, triente apicali incurva; abdomen basi apiceque album; alæ albæ, linea exteriore nigra, spatio marginali cupreo-fusco; anticæ lineis duabus basalibus et reniformi subquadrata nigris, costa nigro notata; posticæ puncto discali nigro.*

Male. Cinereous-brown, coarsely squamous, flecked with black, whitish beneath. Palpi minute. Antennæ stout, submoniliform, pubescent, straight from the base to two-thirds of the length, where there is a slight tuft, curved from thence to the tips. Abdomen white at the base and towards the tip, extending somewhat beyond the hind wings. Wings white, with an irregular exterior black line, between which and the exterior border they are cupreous-brown; marginal points black. Fore wings with two irregular black lines near the base; reniform mark black, subquadrate; costa with black marks. Hind wings with a black discal point. Length of the body 4 lines; of the wings 9 lines.

New South Wales. In Mr. Saunders' collection.

Genus 7. ASOPIA.

Corpus vix robustum. Palpi breves, pilosi, caput perpaullo superantes; articulus 3us truncatus, parvus. Palpi maxillares obsoleti. Antennæ subpubescentes. Abdomen alas posticas superans, apice maris acutum, fœm. obtusum. Pedes graciles, læves, calcaribus longissimis. Alæ sat angustæ, non hyalinæ, sæpissime vix nitentes; anticæ acutæ.

Asopia, *Guen. Delt. et Pyral.* 202.

Body hardly stout. Palpi short, pilose, extending but little beyond the bead; third joint truncated, indistinct. Maxillary palpi obsolete. Antennæ minutely pubescent. Abdomen conical, extending beyond the hind wings; tip acute in the male, obtuse in the female. Legs slender, smooth, moderately long; spurs very long. Wings rather narrow, not hyaline, rarely shining. Fore wings acute.

North America.

1. Asopia bicoloralis.

Mas et fœm. *Ochraceo-flava; alæ dimidio exteriore violaceo-fusco linea exteriore marginato; anticæ linea interiore arcuata strigaque discali rufo-fuscis; fimbria ex parte alba; posticæ fœm. striga apud marginem interiorem fusca.*

Asopia bicoloralis, *Guen. Delt. et Pyral.* 205, 159.

North America. Brazil.

2. Asopia vulgalis.

Var.? Mas et fœm. *Lutea, plus minusve cinerascens; alæ lineis duabus subundulatis punctisque marginalibus nigris; anticæ linea exteriore valde flexa, orbiculari et reniformi nigris, hac arcuata, illa punctiformi.*

Asopia vulgalis, *Guen. Delt. et Pyral.* 202, 150.

Var.? Male and female. Luteous, with more or less cinereous tinge. Wings with two black lines; the interior one slightly undulating; the exterior one very much bent behind the reniform mark; marginal points black, elongated in the hind wings. Fore wings with black orbicular and reniform marks; the former punctiform; the latter forming a lunule. Length of the body 3½ lines; of the wings 8 lines.

a—d. St. Domingo. From Mr. Tweedie's collection.
e, f. Jamaica. From Mr. Gosse's collection.
g—i. Honduras. From Mr. Dyson's collection.
j. Honduras. From Mr. Miller's collection.
k. Venezuela. From Mr. Dyson's collection.
l, m. Congo. Presented by Sir J. Richardson.
n. West Africa.
o. Cape. From M. Dregé's collection.
p—r. Ceylon. From Mr. Stevens' collection.
s. St. Jago. Presented by C. Darwin, Esq.

3. Asopia Archasialis.

Luteo-testacea; abdominis segmenta albo marginata; alæ lineis duabus nigricantibus vix denticulatis, linea marginali nigra; anticæ peracutæ, costa obscuriore, linea submarginali subrecta postice abbreviata, orbiculari vacua subquadrata, reniformi e striga nigricante.

Luteous-testaceous, whitish beneath. Abdominal segments with white hind borders. Wings with two hardly denticulated blackish lines; marginal line black, slightly interrupted by the veins in the fore wings. Fore wings very acute; costa slightly dusky; submarginal line almost straight, abbreviated hindward; orbicular mark void, irregularly subquadrate; reniform distinguished by a blackish streak. Length of the body 3½ lines; of the wings 9 lines.

a. United States. Presented by E. Doubleday, Esq.

West Indies.

4. Asopia Dircealis.

Fœm. *Ochracea; thorax luteo varius; abdomen basi luteum, segmentis argenteo marginatis; alæ luteo variæ, spatio marginali latissimo fuscescente-rufo, lineis duabus obliquis fuscis, linea marginali pallida nigricante marginata, fimbria cinerea; anticæ apud costam fuscescente-rufæ, linea 3a fusca postice abbreviata.*

Female: Ochraceous, white beneath. Thorax partly luteous. Abdomen luteous at the base; hind borders of the segments silvery white. Wings partly luteous; exterior part very largely brownish red; two oblique brown lines; the exterior one slightly denticulated in the fore wings, bordering in the hind wings the brownish red part; marginal line pale, blackish-bordered; fringe cinereous, shining. Fore wings brownish red along the costa; a third more exterior brown line, abbreviated hindward by the brownish red part. Length of the body 3 lines; of the wings 8 lines.

a. St. Domingo. From Mr. Tweedie's collection.

South America.

A. Alæ roseo variæ. - - - - rubrocinctalis, *Guen.*
B. Alæ non roseo variæ.
A. Alæ non nebulosæ.
a. Alæ totæ flavæ.
a. Alæ minus oblongæ. - - - unicoloralis, *Guen.*
b. Alæ magis oblongæ. - - - simplalis, *Guen.*
b. Alæ flavæ, bilineatæ.
a. Palpi nigro fasciati. - - - - cernalis, *Guen.*
b. Palpi non fasciati. - - - - chromalis, *Guen.*
c. Alæ nigro-fuscæ. - - - - - lunulalis, *Guen.*
B. Alæ nebulosæ. - - - - - Phærusalis, *Walk.*

5. Asopia cernalis.

Mas et fœm. *Aurato-flava; palpi nigro bicincti; pedes antici nigro fasciati; abdomen fasciis pallide flavis; alæ lineis interiore et exteriore undulatis nigricantibus, fimbria nigro-cinerea; anticæ lineis apud costam nigris dilatatis, gutta basali costali nigra, litura tenui discali.*

Asopia cernalis, *Guen. Delt. et Pyral.* 203, 152.

Cayenne.

Var.? Fœm. *Lutea; palporum articuli 1us et 2us apice nigri; abdomen apicem versus ochraceum, segmentis argenteo marginatis; pedes antici nigro fasciati; alæ lineis duabus subobliquis fuscis, exteriore subdenticulata, linea marginali duplicata nigricante; anticæ basi costaque nigro notatis, linea 3a denticulata postice abbreviata, reniformi arcuata fusco marginata; posticæ linea 2a postice abbreviata.*

Female. Luteous, pale yellow beneath. Abdomen extending very little beyond the hind wings, ochraceous towards the tip; hind borders of the segments silvery white. Fore legs with black bands. Wings with two slightly oblique brown lines; the exterior one slightly dentieulated; a double marginal blackish line, interrupted in the fore wings by the veins. Fore wings with a black basal point, and with a black costal spot near the base, having opposite to it a black dot on the interior border; another black costal spot emitting the first line; second line emerging from the reniform mark, which

forms a brown-bordered lunulé; a third denticulated brown line, which is abbreviated hindward, and is black and dilated on the costa. Hind wings with the second line abbreviated hindward. Length of the body 4½ lines; of the wings 11 lines.

a. Villa Nova. From Mr. Bates' collection.

6. ASOPIA UNICOLORALIS.

Mas et fœm. *Saturate flava; palporum articuli 1us et 2us apice nigro-fusci; pedes antici tibiis tarsisque nigro-fusco tinctis.*

Asopia unicoloralis, *Guen. Delt. et Pyral.* 203, 153.

Brazil.

7. ASOPIA SIMPLALIS.

Fœm. *Saturate flava*, A. unicolorali *major; palporum articulus 3us sat determinatus; alæ magis oblongæ.*

Asopia simplalis, *Guen. Delt. et Pyral.* 203, 154.

Brazil.

8. ASOPIA CHROMALIS.

Mas et fœm. *Ochraceo-flava; abdominis segmenta albo marginata; alæ fimbria basi nigra; anticæ lineis duabus fuscis apud costam nigris, exteriore denticulata; posticæ linea tenui dentata strigaque discali.*

Asopia chromalis, *Guen. Delt. et Pyral.* 204, 155.

Cayenne.

9. ASOPIA RUBROCINCTALIS.

Mas. *Ochracea; antennæ glabræ, serratæ; abdomen roseum, maculis duabus apiceque ochraceis; alæ litureis purpureo-roseis exovatis saturate rufo marginatis; posticæ margine lato roseo maculas ochraceas includente apud medium interrupto.*

Asopia rubrocinctalis, *Guen. Delt. et Pyral.* 204, 157.

Cayenne.

10. Asopia lunulalis.

Mas. *Nigro-fusca; alæ anticæ guttis duabus, una costali postmedia, altera discali antemedia albis, margine postico testaceo; posticæ testaceo marginatæ.*

Lamprosema lunulalis (Pyralis vulgaris. Palpita notata), *Hübn. Samml. Exot. Schmett.* ii. 21, 152, f. 303, 304.

Asopia lunulalis, *Guen. Delt. et Pyral.* 205, 160.

Surinam.

11. Asopia Phærusalis.

Luteo-testacea; thorax fusco bifasciatus; pedes fusco fasciati; alæ ex parte fusco nebulosæ, lineis duabus obliquis lunulisque marginalibus obscure fuscis; anticæ linea basali lineaque submarginali vix undulata obscure fuscis, orbiculari et reniformi e annulis duobus obscure fuscis, hac informi, illa subrotunda.

Luteous-testaceous. Thorax with two brown bands. Legs with brown bands. Wings partly clouded with brown; two dark brown oblique lines; the exterior one slightly denticulated; marginal lunules dark brown. Fore wings with a dark brown basal line, and with a dark brown hardly undulating submarginal line; orbicular and reniform marks represented by two dark brown ringlets, the former nearly round, the latter irregular. Length of the body 3 lines; of the wings 7 lines.

a. Honduras. From Mr. Miller's collection.

Africa.

12. Asopia Biblisalis.

Mas. *Ochracea; antennæ albidæ; abdomen basi flavum, segmenti 2i margine postico punctisque posticis lateralibus nigris; alæ lineis tribus nigris, 3a marginali denticulata, plaga discali flava, fimbria cinerea; anticæ linea exteriore valde flexa, reniformi nigra albido notata; posticæ basi flavæ, apice nigræ.*

Male. Bright orange, yellow beneath. Antennæ whitish, shining. Abdomen yellow at the base; hind border of the second segment black; black points on each side towards the tip. Wings with two black lines, and with a denticulated black line along the exterior border; a yellow discal patch; fringe cinereous. Fore

wings with the exterior line extremely bent, touching the hind end of the black reniform mark, which has a whitish disk. Hind wings yellow at the base, black at the tips. Length of the body 3½ lines; of the wings 7 lines.

a. Port Natal. From M. Gueinzius' collection.

Mauritius.

13. Asopia filalis.

Fœm. *Sulphureo-flava; abdomen roseo unistrigatum; tibiæ anticæ roseo binotatæ; tarsi antici, albi nigro cincti; alæ lineis duabus tortuosis margineque purpurascente-roseis; anticæ litura discali bene determinata, disco purpurascente nitente.*

Asopia filalis, *Guen. Delt. et Pyral.* 204, 156.

Mauritius.

Asia.

A. Alæ roseo variæ. - - - - - roridalis, *Walk.*
B. Alæ roseo non variæ.
A. Alæ albæ. - - - - - Onychinalis, *Guen.*
B. Alæ luteæ.
a. Alæ margine obscuro.
a. Alæ margine latissimo. - latimarginalis, *Walk.*
b. Alæ margine tenui.
i. Alæ anticæ costa nigro notata. - charomalis, *Walk.*
ii. Alæ anticæ costa non notata. - - abruptalis, *Walk.*
b. Alæ margine pallido. - - - - Eryxalis, *Walk.*
C. Alæ cinereæ. - - - - - præteritalis, *Walk.*
D. Alæ purpureæ. - - - - - falsidicalis, *Walk.*

14. Asopia Onychinalis.

Alba; thorax lineis tribus nigro-fuscis; abdomen fasciis posticis nigricantibus, alæ lineis plurimis variis nigro-fuscis; anticæ guttis duabus nigro-fuscis, margine exteriore nigro-fusco puncta alba includente.

Asopia Onychinalis, *Guen. Delt. et Pyral.* 205, 158.

Coromandel.

15. Asopia falsidicalis.

Fœm. *Fuscescente-purpurea, subcinerascens, subtus alba; palpi porrecti, articulo 2o lato, 3o minimo; alæ lineis duabus subundulatis nigris ex parte flavo marginatis, plaga flava, fimbria ex parte alba; anticæ margine exteriore perobliquo, linea exteriore abbreviata nigra; posticæ linea media valde abbreviata.*

Female. Brownish purple, with a slight cinereous tinge, white beneath. Papi porrect; second joint broad; third extremely minute. Wings with two slightly undulating partly yellow-bordered black lines; one interior; the other in the middle; marginal line black; fringe white, partly brownish purple. Fore wings very oblique along the exterior border, with an exterior black line, which is abbreviated hindward and borders the exterior side of a yellow patch. Hind wings with the middle line much abbreviated hindward, and also bordering the exterior side of a yellow patch. Length of the body 3¼ lines; of the wings 9 lines.

a. Ceylon. Presented by R. Templeton, Esq..

16. Asopia latimarginalis.

Mas. *Lutea; abdomen ochraceum, segmentis nigro marginatis, fasciculo apicali nigricante; alæ margine lato purpurascente-cinereo, lineis duabus nigris subarcuatis; anticæ ex parte cinerascentes, linea 3a nigra postice abbreviata.*

Male. Luteous, whitish beneath. Abdomen ochraceous, luteous at the base, extending not much beyond the hind wings; abdominal segments with black borders; apical tuft blackish. Wings with the marginal part broadly purplish cinereous; two black lines, which are slightly and irregularly curved. Fore wings with a cinereous basal tinge, and with a more distinct cinereous tinge in the disk between the first and second lines; a third black more exterior line, abbreviated hindward, and bounding the purplish cinereous part. Hind wings with the second line bounding the dark part. Length of the body 3½ lines; of the wings 8 lines.

a, b. Ceylon. From Mr. Stevens' collection.

17. ASOPIA ERYXALIS.

Mas. *Lutea; palpi angulati; articulus 2us subtus dilatatus; 3us longi-conicus, 2i dimidio longior; antennæ pubescentes; alæ apud discum obscure cinereæ, lineis duabus angustis nigris, linea submarginali rufescente subdenticulata, fimbria lata; anticæ linea basali nigricante.*

Male. Luteous, paler beneath. Proboscis moderately long. Second joint of the palpi dilated beneath; third elongate-conical, more than half the length of the second, with which it forms a distinct angle. Antennæ distinctly pubescent. Wings with the disk dark cinerous; two slender irregular black lines; submarginal line reddish, very minutely denticulated, almost parallel to the exterior border; fringe broad. Fore wings with a basal blackish line, which is most apparent on the costa. Length of the body 2½ lines; of the wings 6 lines.

a. Ceylon. From Mr. Stevens' collection.

18. ASOPIA? ABRUPTALIS.

Mas et fœm. *Lutea, subtus alba; palpi obtusi, articulo 3o minimo; maxillares distincti; alæ lineis duabus angustis nigris, 1a subrecta, 2a denticulata, spatio apud marginem nonnunquam nebuloso, linea marginali nigra; anticæ linea basali rufescente, linea submarginali nigra undulata postice abbreviata.*

Male and female. Luteous, white beneath. Proboscis rather long. Palpi obtuse; third joint very small. Maxillary palpi distinct. Wings with two slender black lines; the interior one nearly straight; the exterior one denticulated; space towards the exterior border sometimes clouded; marginal line black; fringe cinereous, interlined. Fore wings with a reddish basal line, and with an undulating black submarginal line, which is abbreviated hindward. Length of the body 3 lines; of the wings 7 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b—e. Ceylon. From Mr. Stevens' collection.

19. ASOPIA? RORIDALIS.

Mas. *Lutea; thorax antice roseus; abdomen tumidum, roseo conspersum; alæ longiusculæ, sat angustæ, ex parte roseæ, lineis tribus deviis lineaque marginali latiuscula roseis; anticæ acutæ, lanceolatæ, lituris quinque luteis roseo marginatis.*

Male. Luteous, whitish beneath. Thorax rosy in front. Abdomen somewhat tumid, with rosy speckles, which are mostly on each side, extending somewhat beyond the hind wings. Wings rather long and narrow, partly rosy, with three irregular rosy lines; marginal line rosy, rather broad. Fore wings acute, lanceolate, with five luteous rosy-bordered marks; three in front and two larger and more in the disk; under side with the marks fewer and incomplete. Length of the body 4 lines; of the wings 10 lines.

a. Ceylon. Presented by R. Templeton, Esq.

20. ASOPIA? PRÆTERITALIS.

Mas. *Cinerea, fusco conspersa; antennæ submoniliformes, setosæ, apud medium subincrassatæ: abdomen apicem versus albidum, apice nigrum fasciculis duobus longis pallidis; alæ ex parte testaceæ, lineis duabus nigricantibus, margine exteriore subflexo; anticæ subacutæ, linea 3a nigricante, orbiculari et reniformi e annulis duobus nigricantibus.*

Male. Cinereous, speckled with brown, paler beneath. Antennæ submoniliform, minutely setose, slightly incrassated in the middle. Abdomen extending rather beyond the hind wings, whitish towards the tip, which is black, and furnished beneath with two long pale tufts. Wings partly testaceous, with two irregular blackish lines; exterior border slightly bent. Fore wings slightly acute, with a third more exterior blackish line; orbicular and reniform marks represented by two blackish ringlets. Length of the body 3 lines; of the wings 5½ lines.

a. Ceylon. From Mr. Stevens' collection.

21. ASOPIA CHARONIALIS.

Mas. *Lutea; alæ lineis tribus incompletis lineaque marginali fuscis, fimbria alba basi nigra; anticæ acutæ, punctis costalibus nigris, lineis 4a et 5a fuscis subobsoletis.*

Male. Luteous, testaceous beneath. Wings with three slight irregular and incomplete brown lines; marginal line brown, interrupted by the veins in the fore wings; fringe white, black at the base. Fore wings acute, with three or four black costal points; some slight traces of two more brown lines. Length of the body 4 lines; of the wings 8 lines.

a, b. Shanghai. From the collection of the Entomological Society.

Australasia.

22. Asopia Moninalis.

Mas. *Lutea; thorax antice fusco notatus; abdomen longi-fusiforme, tumidum, apice ochraceum nigro biguttatum; pedes antici femoribus tibiisque apice nigris; alæ fusco ex parte nebulosæ, lineis duabus angulosis lineaque submarginali nigricantibus; anticæ linea submarginali guttulari, linea basali annulisque duobus nigris.*

Male. Luteous, whitish beneath. Thorax with brown marks in front. Abdomen elongate-subfusiform, tumid except towards the base, extending far beyond the hind wings; tip ochraceous, with a black dot on each side. Fore femora and fore tibiæ with black tips. Wings partly clouded with brown, with two zigzag blackish lines; submarginal line blackish, abbreviated in the hind wings, composed of dots in the fore wings; marginal line brown. Fore wings with a basal black line, and with two black ringlets indicating the orbicular and reniform marks. Length of the body 4 lines; of the wings 7½ lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

Australia.

A. Alæ non purpureo variæ.
- *A.* Alæ luteæ. - - - - - - diemenalis, *Guen.*
- *B.* Alæ cinereo-albæ. - - - - - - Venilialis, *Walk.*

B. Alæ purpureo variæ.
- *A.* Alæ lineatæ. - - - - - - Hipponalis, *Walk.*
- *B.* Alæ fasciatæ. - - - - - - - Lydialis, *Walk.*

23. Asopia diemenalis.

Mas. A. vulgali *simillima, major, saturatior; alæ angustiores, magis conspersæ, linea marginali punctulari, fimbria fere concolori; abdomen longius.*

Asopia diemenalis, *Guen. Delt. et Pyral.* 203, 151.

Tasmania.

24. Asopia Venilialis.

Cinereo-alba, stramineo tincta; alæ lineis obliquis vix undulatis spatioque marginali lato cinereo-fuscis, fimbria interlineata;

anticæ punctis costalibus nigris, fasciculo subcostali oblongo cinereo-fusco, linea 3a undulata postice abbreviata; posticæ linea 2a abbreviata.

Cinereous-white, slightly tinged with straw-colour. Head and fore part of the thorax cinereous-brown. Wings with two slender oblique hardly undulating cinereous-brown lines; marginal part largely cinereous-brown; fringe interlined. Fore wings with black points along the costa; an oblong cinereous-brown subcostal tuft at a little before the middle; a third undulating line, which terminates hindward in the cinereous-brown border. Hind wings with the second line joining the cinereous-brown part hindward. Length of the body 3 lines; of the wings 8 lines.

a. Moreton Bay. From Mr. Diggles' collection.

25. Asopia Hipponalis.

Fœm. *Flava; caput et thoraæ anticus purpurascente-fusca; abdomen gutta subapicali nigra; alæ lineis duabus denticulatis purpurascente-fuscis, linea submarginali pallide fusca vix denticulata; anticæ apud costam purpurascente-fuscæ, punctis duobus basalibus nigricantibus, orbiculari guttiformi et reniformi oblonga nigricantibus.*

Female. Yellow, paler beneath. Head and fore part of the thorax purplish brown. Abdomen extending rather beyond the hind wings, with a black subapical dot. Fore legs brown above; joints of the tarsi with brown tips. Wings with two denticulated purplish brown lines; the exterior one much bent in the fore wings; submarginal line pale brown, hardly denticulated; marginal line pale; fringe cinereous. Fore wings purplish brown along the costa; two blackish basal points, one on each border; orbicular and reniform marks blackish, the former guttiform, the latter transversely oblong. Length of the body 3½ lines; of the wings 8 lines.

a, b. Moreton Bay. From Mr. Diggles' collection.

26. Asopia Lydialis.

Fœm. *Purpurascente-fusca; abdominis segmenta albido marginata; pedes antici femoribus tibiisque apice nigris; alæ fasciis duabus obliquis denticulatis luteis, linea marginali pallida, fimbria albida basi fusca; anticæ costa diffuse fasciaque basali luteis, orbiculari et reniformi nigricantibus oblongo-subquadratis.*

Female. Purplish brown, mostly yellow beneath. Hind borders of the abdominal segments whitish; tip yellow. Fore femora and fore tibiæ with black tips. Wings with two irregular oblique luteous bands; the interior one occupying all the basal part of the hind wings; marginal line pale; fringe whitish, brown at the base. Fore wings irregularly luteous along most of the costa, and with a luteous basal band; orbicular and reniform marks blackish, transversely oblong-subquadrate, mostly in the luteous part. Length of the body 4 lines; of the wings 10 lines.

a. Moreton Bay. From Mr. Diggles' collection.

Genus 8. HYALEA.

Corpus squamosum, nitens. Frons angusta, antice producta bifida. Proboscis longa, gracilis. Palpi compressi, bicolores, squamoso læves; articulus 3us amplus, securiformis. Palpi maxillares conspicui, brevissimi, lineares, apice truncati. Antennæ pubescentes, subserratæ. Abdomen attenuatum, conicum, subcompressum, alas posticas superans. Pedes glabri, calcaribus inæqualibus. Alæ concolores, bicolores, semihyalino flavæ, nigro marginatæ.

Hyalea, *Guen. Delt. et Pyral.* 206.

Body squamous. Front narrow, elongate and slightly bifid. Proboscis long, slender. Palpi compressed, squamous, smooth, of two colours; third joint ample, securiform. Maxillary palpi distinct, linear, very short, truncated at the tips. Antennæ pubescent; joints notched or triangular. Abdomen attenuated, conical, slightly compressed, extending beyond the hind wings. Legs smooth, with unequal spurs. Wings semihyaline, yellow, with black borders.

North America.

1. HYALEA DIVIDALIS.

Mas. *Flava; alæ ferrugineo marginatæ, basi nigro punctatæ; anticæ fascia obliqua antemedia ferruginea punctoque antico medio nigro.*

Anania dividalis (Pyralis valgaris, Palpita nobilis), *Geyer, Zutr. Samml. Exot. Schmett.* 39, 390, f. 779, 780.

Hyalea dividalis, *Guen. Delt. et Pyral.* 287, 162.

United States.

South America.

2. Hyalea succinalis.

Mas. *Flava; abdomen fascia lata apiceque nigricantibus; pedes antici femoribus tibiisque extus nigricantibus; alæ fimbria nigricante; anticæ costa, margine fasciaque obliqua nigro-chalybeis.*

Hyalea succinalis, *Guen. Delt. et Pyral.* 206, 161.

Brazil.

3. Hyalia glaucopidalis.

Mas. *Fusco-nigra, violaceo nitens; thorax, abdomen basi, vitta ventralis femoraque antica flava; alæ anticæ valde angustæ et oblongæ, maculis duabus flavis, una basali trigona, altera exteriore ovata; posticæ macula magna interiore trigona flava.*

Hyalea glaucopidalis, *Guen. Delt. et Pyral.* 207, 163.

4. Hyalea Delilalis.

Fœm. *Lutea; caput thoracisque antici discus et latera nigro-purpurea; abdomen vitta postica apiceque nigricantibus; alæ apice purpureæ; anticæ costa fasciaque vix obliqua purpureis; posticæ margino exteriore purpureo.*

Female. Luteous. Head, disk and sides of the fore part of thorax blackish purple. Abdomen towards the tip with a short blackish stripe composed of triangular connected spots; tip blackish. Wings purple towards the tips. Fore wings purple along the costa, and with a hardly oblique purple band, which extends along the exterior part of the interior border. Hind wings purple along nearly the whole of the exterior border. Length of the body 6 lines; of the wings 16 lines.

a. Ega. From Mr. Bates' collection.

5. Hyalea Iphiclalis.

Mas. *Aureo-flava; caput et thorax anticus rufescentia; abdomen apice nigrum; alæ apice cupreo-rufæ, fimbria nigræ; anticæ margine fasciaque subinterrupta cupreo-rufis, costa nigra, orbiculari punctiformi; posticæ macula antica oblonga transversa margineque cupreo-rufis.*

Male. Gilded yellow. Head and fore part of the thorax reddish. Abdomen extending far beyond the hind wings, black towards the tip. Wings cupreous-red towards the tips; fringe black. Fore wings cupreous-red along the exterior border and along the costa, which is black; orbicular mark punctiform; an exterior red band with its borders darker, except hindward, where it is almost interrupted. Hind wings cupreous-red along the exterior border and in front with an elongated red dark-bordered spot, which corresponds to the fore part of the band of the fore wings. Length of the body 6 lines; of the wings 12 lines.

a. Villa Nova. From Mr. Bates' collection.

Genus 9. AGATHODES.

Corpus robustum. Proboscis valida, longiuscula. Palpi validi, breves, compressi, pilosi, oblique ascendentes; articulus 3us minimus. Antennæ simplices, longiusculæ. Abdomen lanceolatum, alas posticas longe superans. Pedes longi, læves, calcaribus longis. Alæ longæ; anticæ angustæ, lanceolatæ, acutæ, costa apicem versus subrotundata, margine exteriore perobliquo.

Agathodes, *Guen. Delt. et Pyral.* 207.

Body stout. Proboscis stout, rather long. Palpi robust, short, compressed, pilose, ascending; third joint very minute. Antennæ simple, rather long. Abdomen lanceolate, extending rather far beyond the hind wings. Legs long, smooth; spurs very long. Wings long. Fore wings narrow, lanceolate, acute, slightly rounded towards the tip of the costa; exterior border very oblique.

North America.

1. AGATHODES MONSTRALIS.

Olivaceo-cervina, subtus alba; abdomen album; alæ anticæ costa alba, plaga costali apicali pallide olivacea albo marginata, vitta arcuata purpurea ex parte albo marginata, fimbria rosea ex parte alba, arcu disculi albo, striga lata ochracea apud angulum interiorem; posticæ opalino-hyalinæ.

Agathodes monstralis, *Guen. Delt. et Pyral.* 209, 165.

a. United States. Presented by E. Doubleday, Esq.
b, *c*. St. Domingo. From Mr. Tweedie's collection.

Mexico.

2. Agathodes designalis.

Olivacea-cervina, subtus alba; alæ perangustæ; anticæ costa pallida, vitta arcuata roseo-purpurea ex parte albo marginata, striga lata ochracea apud angulum interiorem, lunula discali albida fusco marginata; posticæ aurato-hyalinæ.

Agathodes designalis, *Guen. Delt. et Pyral.* 209, 166.

Brazil.

a. Mexico. From M. Bottori's collection.

Africa.

3. Agathodes modicalis.

Olivacea; abdominis segmenta albo marginata; alæ anticæ plaga costali apicali pallidiore albo marginata, costa alba, vitta arcuata purpureo-rosea, striga lata ochracea apud angulum interiorem; posticæ cinereo-hyalinæ, opalinæ, apice fuscescentes.

Agathodes modicalis, *Guen. Delt. et Pyral.* 210, 168.

a. Port Natal. From M. Gueinzius' collection.

Asia.

4. Agathodes ostentalis.

Lutea; alæ anticæ disco ex parte costaque albidis, vitta arcuata fimbriaque roseis; posticæ cinereo-hyalinæ, aureo marginatæ, apice fuscæ.

Perinephela ostentalis (Pyralis vulgaris, Palpita repandata), *Geyer, Zutr. Samml. Exot. Schmett.* 10, 417, f. 833, 834.

Agathodes ostensalis, *Guen. Delt. et Pyral.* 208, 164.

a, *b*. North Hindostan. From Mr. Stevens' collection.
c. North Hindostan. Presented by Gen. Hearsay.
d. North Hindostan. From Capt. Reid's collection.
e. North Hindostan. From Mr. James' collection.
f. Hindostan. From Archdeacon Clerk's collecion.
g. Java. From the collection of the East India Company.

Australia.

5. AGATHODES MUSIVALIS.

Fœm. *Sordide olivaceo-flava ; abdominis segmenta lituris olivaceis albo marginatis ; alæ anticæ fimbria ex parte rufo-fusca, fascia perobliqua fuscescente roseo-albo opalino marginata, macula discali fulva rufo-fusco marginata ; posticæ stramineæ.*

Agathodes musivalis, *Guen. Delt. et Pyral.* 210, 167.

Australia ?

Genus 10. TERASTIA.

Mas. Corpus robustum. Frons plana. Palpi squamosi, læves, rostriformes. Palpi maxillares transversi. Antennæ filiformes, cylindricæ, non setosæ. Abdomen crassum, tumidum, segmentis duobus ultimis fasciculatis. Alæ anticæ valde longæ et angustæ, marginibus exteriore et interiore valde sinuatis; posticæ latæ, semihyalinæ, costa excavata bis dilatata.

Terastia, *Guen. Delt. et Pyral.* 211.

Body robust. Proboscis stout, rather long. Palpi stout, porrect, pilose, extending beyond the head ; third joint conical, not one-third of the length of the second, with which it forms a very slight angle. Antennæ simple, rather stout. Abdomen extending far beyond the hind wings, with tufts on each side hindward. Legs stout, long, smooth ; spurs not long. Wings long. Fore wings narrow; exterior border undulating; interior border excavated towards the interior angle. Hind wings with the costa very undulating.

1. TERASTIA METICULOSALIS.

Testacea, nigro aut fusco conspersa ; anticæ fascia obliqua maculaque interiore trigona fuscis apud costam connexis, reniformi obliqua fuscescente, squamis contiguis nigris, punctis costalibus subapicalibus nigris ; posticæ albo-hyalinæ, lineis duabus subapicalibus fuscescentibus.

Terastia meticulosalis, *Guen. Delt. et Pyral.* 212, 169.

a, b. St. Domingo. From Mr. Tweedie's collection.
c. Honduras. From Mr. Dyson's collection.

Genus 11. MEGAPHYSA.

Corpus robustum. Proboscis valida. Palpi lati, compressi, squamosi, læves, bicolores; articulus 3us brevissimus. Palpi maxillares minimi, penicillati. Antennæ graciles, filiformes, vix pubescentes. Abdomen longum, attenuatum, carinatum, fasciculo apicali bifido aut quadrato. Pedes longissimi; tibiæ anticæ et posticæ plus minusve incrassatæ; calcaria non longa. Alæ amplæ, oblongæ, lanceolatæ; anticæ acutæ, plus minusve falcatæ.

Megaphysa, *Guen. Delt. et Pyral.* 212.

Body robust. Proboscis stout. Palpi broad, compressed, squamous, smooth, of two colours; third joint very short. Maxillary palpi penicillate, very minute. Antennæ slender, filiform, hardly pubescent. Abdomen long, attenuated, conical, keeled, ending in a quadrate or bifid tuft. Legs very long; fore and hind tibiæ more or less thickened and squamous; spurs short. Wings ample, oblong, lanceolate, alike in colour, and with similar markings. Fore wings acute, more or less falcate.

South America.

A. Alæ anticæ valde falcatæ. - - - herbiferalis, *Guen.*
B. Alæ anticæ falcatæ.
A. Alæ posticæ albæ.
a. Tibiæ posticæ incrassatæ. - - - inscriptalis, *Guen.*
b. Tibiæ posticæ non incrassatæ. - - interioralis, *Guen.*
B. Alæ posticæ fulvæ. - - - - sibilalis, *Guen.*
C. Alæ anticæ subfalcatæ.
A. Alæ anticæ linea nulla nigra.
a. Alæ anticæ non unicolores. - - - bistralis, *Guen.*
b. Alæ anticæ unicolores. - - - Corylalis, *Guen.*
B. Alæ anticæ linea nigra.
a. Alæ anticæ fimbria obscura. - - damalis, *Guen.*
b. Alæ anticæ fimbria apice alba. - - majoralis, *Guen.*

1. Megaphysa herbiferalis.

Mas. *Viridis; alæ anticæ testaceo-cinereæ, valde falcatæ et acuminatæ, ochraceo variæ, fusco strigatæ, linea perobliqua nigricante, maculis duabus trigonis hyalinis; posticæ pallidissime cinereæ, semihyalinæ, flavescente marginatæ.*

Megaphysa herbiferalis, *Guen. Delt. et Pyral.* 213, 170.

Colombia.

2. MEGAPHYSA INSCRIPTALIS.

Testaceo-cinerea; alæ anticæ falcatæ, acutæ, nigricante strigatæ, apud costam pallidiores, apud marginem exteriorem obscuriores, linea basali lineaque exteriore arcuatis nigricantibus, puncto nigricante maculaque obscura vaga discalibus; posticæ albæ, cervino et nigricante marginatæ, macula discali lineaque media nigris.

Megaphysa inscriptalis, *Guen. Delt. et Pyral.* 213, 171.

Colombia?

3. MEGAPHYSA INFERIORALIS.

Mas. M. inscriptali *simillima, minor; alæ anticæ pallidiores, non marginatæ, macula marginali trigona fusca in areolam producta, linea media indistincta punctiformi, maculis discalibus plus approximatis, reniformi strigam pallidam includente; posticæ pallidiores, linea media nulla.*

Megaphysa inferioralis, *Guen. Delt. et Pyral.* 214, 172.

Colombia.

4. MEGAPHYSA BISTRALIS.

Mas. *Flavescente-fusca; alæ anticæ subfalcatæ, spatio marginali saturatiore, linea marginali duplicata fusca, maculis discalibus indistinctis vagis; posticæ margine exteriore obscuriore, linea media subtus tremula strigaque discali nigricantibus.*

Megaphysa bistralis, *Guen. Delt. et Pyral.* 214, 173.

Colombia.

5. MEGAPHYSA CORYLALIS.

Mas. *Cervina; alæ anticæ subfalcatæ, unicolores, margine exteriore subtus saturatiore, linea exteriore e punctis nigris, maculis discalibus vix conspicuis subtus nigris bene determinatis; posticæ pallidiores, margine exteriore obscuriore, linea nigricante punctisque nigris marginalibus.*

Megaphysa Corylalis, *Guen. Delt. et Pyral.* 214, 174.

Colombia.

6. MEGAPHYSA DAMALIS.

Fœm. *Flavescente-testacea; alæ linea nigra arcuata subsinuata; anticæ subfalcatæ, linea interiore brevi arcuata, maculis discalibus non bene determinatis, orbiculari punctiformi, reniformi arcuata, fimbria obscura, apud angulum pallida; posticæ pallidiores, apud marginem interiorem nigricante lineatæ, puncto discali nigro, linea discali incrassata.*

Megaphysa damalis, *Guen. Delt. et Pyral.* 215, 175.

Brazil.

7. MEGAPHYSA MAJORALIS.

Luteo-cervina; alæ anticæ subfalcatæ, lineis duabus nigricantibus, interiore subarcuata, exteriore obliqua costam versus flexa, orbiculari guttiformi et reniformi annuliformi nigricantibus, margine interiore fimbriaque nigricantibus, hac apud angulum interiorem albida; posticæ testaceæ, litura discali lineaque exteriore subundulata nigricantibus.

Megaphysa majoralis, *Guen. Delt. et Pyral.* 215, 176.

Brazil.

8. MEGAPHYSA SIBILALIS.

Mas. *Fulva; alæ linea fuscescente vaga indeterminata; anticæ falcatæ, lineis postice approximatis, fimbria albida apud medium nigricante, margine exteriore flexo; posticæ non oblongæ, maculis nullis discalibus, fimbria alba.*

Megaphysa sibilalis, *Guen. Delt. et Pyral.* 215, 177.

Brazil.

Africa.

9. MEGAPHYSA? LAISALIS.

Mas. *Obscure ochracea; palporum articulus 3us minimus; antennæ subpubescentes; abdomen apice albidum; tarsi antici longissimi; alæ anticæ subfalcatæ, plaga discali informi alba semihyalina, striga intermedia lata obliqua ochracea nigro marginata, linea submarginali alba arcuata; posticæ albæ, semihyalinæ, margine exteriore pallide ochraceo.*

Male Dull ochraceous, whitish beneath. Third joint of the palpi very minute. Antennæ rather stout, minutely pubescent.

Abdomen extending beyond the hind wings; apical tuft whitish. Fore tarsi very long. Fore wings subfalcate, with a very irregular white semihyaline discal patch, which is partly interrupted by a broad oblique ochraceous black-bordered streak; a curved submarginal white line ending in the middle of the exterior border, the latter undulating and with a few black points. Hind wings white, semihyaline, irregularly pale ochraceous along the exterior border where there are some black points. Length of the body 5 lines; of the wings 12 lines.

a. Cape. Presented by Sir A. Smith.

Asia.

10. Megaphysa Egialealis.

Ochraceo-cervina, subtus alba; tibiæ anticæ fasciculatæ nigro-subfasciatæ; alæ anticæ subfalcatæ, margine exteriore undulato, margine interiore extus excavato, lineis duabus deviis nigris, spatio intermedio hyalino fasciam abbreviatam nigro-fuscam includente, guttis exterioribus strigamque obliquam nigris, linea submarginali abbreviata indistincta e lunulis fuscis pallido marginatis, macula subapicali vitrea, linea marginali antica nigro-fusca; posticæ albæ, semihyalinæ, apice ochraceo-fuscæ.

Ochraceous fawn-colour, white beneath. Palpi porrect; apical hairs truncate. Fore tibiæ tufted, slightly banded with black. Fore wings subfalcate; exterior border undulating; interior border excavated towards the tip; two black irregular lines, between which the space is mostly hyaline and includes an abbreviated blackish-brown band; an oblique black streak extending outwards from the costa to the disk, where some black dots form an oblique angle with it; a submarginal oblique indistinct abbreviated pale-bordered brown line composed of lunules and contiguous to a subapical vitreous spot, which also joins the black streak; a blackish brown line extending along the fore half of the exterior border. Hind wings white, semihyaline, with some black flecks towards the tips, which, as well as the adjoining part of the exterior border, are ochraceous-brown. Length of the body 9 lines; of the wings 22 lines.

Hindostan. In Mr. Saunders' collection.

Australasia.

11. Megaphysa? Agathalis.

Mas. *Albido-cinerea, vix testacea; abdomen apice fuscum; femora antica penicillata; alæ anticæ pallide cervinæ, non falcatæ, spatio discali vitreo, fascia intermedia interrupta antice fusco marginata et interlineata postice nigro-fusca, lineis tribus basalibus fuscis obliquis vix undulatis, lineis tribus exterioribus fuscis, 1a angulata, 2a e lunulis, 3a recta antice arcuata; posticæ vitreæ, testaceo marginatæ, costa apicali fusca.*

Male. Whitish-cinereous, with a slight testaceous tinge, whitish beneath. Third joint of the palpi conical, distinct. Abdomen brown at the tip. Fore femora towards the tips with a fan-shaped tuft of long hairs. Fore wings pale fawn-colour, acute, not falcate; discal part mostly vitreous, with an interrupted band, of which the fore part is bordered and interlined with brown and the hind part dark brown; three brown oblique hardly undulating lines near the base; three exterior brown lines; first angular, bordering the vitreous part; second composed of lunules; both ending in the hind part of the band; third straight, except in front, where it is curved; exterior border almost straight. Hind wings vitreous, brown about the apical part of the costa; exterior border largely pale testaceous, slightly bordered with brown and including a vitreous line. Length of the body 8 lines; of the wings 22 lines.

a. Sumatra. From Sir Stamford Raffles' collection.

Genus 12. SPARAGMIA.

Corpus sat robustum. Proboscis mediocris. Palpi compressi, lati, porrecti, rostriformes; articulus 3us indistinctus. Palpi maxillares cristiformes. Antennæ longæ, subpubescentes. Abdomen longum, lanceolatum, alas posticas superans, apice obtusum. Pedes læves, longiusculi, sat graciles; tibiæ anticæ subtus cristatæ. Alæ amplæ; anticæ oblongæ, falcatæ, margine exteriore bis excavato.

Sparagmia, *Guen. Delt. et Pyral.* 216.

Body rather stout. Proboscis moderately long. Palpi broad, porrect, rostriform, of two colours, as long as the breadth of the head; third joint hidden by the squamous hairs. Maxillary palpi forming a little crest at the base of the labial palpi. Antennæ long, minutely pubescent. Abdomen long, lanceolate, obtuse

at the tip, extending beyond the hind wings. Legs smooth, rather long and slender; fore tibiæ crested beneath. Wings ample. Fore wings oblong, falcate; exterior border angular, or with two excavations.

1. SPARAGMIA GIGANTALIS.

Ochracea, subtus alba; alæ anticæ lineis duabus obliquis et reniformi vacua fuscis, fascia submarginali antice abbreviata pallide purpurea, fimbria fusca ex parte alba; posticæ pallidæ, extus ochraceæ, puncto antico lineaque exteriore obliqua indistincta fuscescentibus.

Sparagmia gigantalis, *Guen. Delt. et Pyral.* 216, 178.

a, b. St. Domingo. From Mr. Tweedie's collection.
c. Villa Nova. From Mr. Bates' collection.

Genus 13. DARABA.

Mas. Corpus vix robustum. Proboscis brevis. Palpi longi, oblique ascendentes; articulus 2us pilosus; 3us linearis, gracilis, apice acutus, 2o vix brevior. Antennæ squamosæ, corporis dimidio vix longiores. Abdomen conicum, alas posticas longe superans. Pedes squamosi, longiusculi, sat validi. Alæ longæ, angustæ; anticæ subfalcatæ, margine exteriore undulato.

Male. Body hardly stout. Proboscis short. Palpi long, obliquely ascending; second joint pilose; third linear, slender, acute at the tip, almost as long as the second. Antennæ squamous, little more than half the length of the body. Abdomen conical, extending far beyond the hind wings. Legs squamous, rather long and stout; spurs moderately long. Wings long, narrow. Fore wings subfalcate; exterior border undulating.

1. DARABA IDMONEALIS.

Mas. *Cinereo-cervina; abdomen apice fuscum, lateribus fuscescentibus; alæ anticæ apud costam albidæ, maculis duabus obliquis discalibus strigaque marginali antica fuscis albo marginatis; posticæ albidæ, semihyalinæ, fuscescente marginatæ.*

Male. Cinereous fawn-colour; under side and abdomen paler; the latter brownish along each side and with a brown tip. Fore wings whitish along the costa, with two oblique discal dark

brown white-bordered spots; a broad brown white-bordered streak along the fore part of the exterior border. Hind wings whitish opaline, semihyaline, irregularly bordered with pale brown. Length of the body 6 lines; of the wings 13 lines.

a. Port Natal. From M. Gueinzius' collection.

2. Daraba? vitellialis.

Fœm. *Ferrugineo-fusca, gracilis; palporum articulus 3us 2i dimidio non brevior; abdomen cylindricum, alas posticas dimidio superans; tibiæ anticæ longæ, pilosæ, subincrassatæ; tarsi antici breves; alæ perangustæ; anticæ plaga exteriore magna obliqua nigro-fusca, linea submarginali albida denticulata ex parte nigro marginata; posticæ nigricante-cinereæ.*

Female. Ferruginous-brown, slender, more cinereous beneath. Second joint of the palpi with rather long hairs; third linear, about half the length of the second. Antennæ slender, squamous, submoniliform. Abdomen long, cylindrical, extending for more than half its length beyond the hind wings. Legs long, slender; spurs very long; fore tibiæ pilose, long, slightly incrassated; fore tarsi short. Wings very narrow. Fore wings with a large oblique exterior blackish brown patch extending to the interior border, but not to the costa; a whitish denticulated partly black-bordered submarginal line; exterior border slightly undulating, very oblique. Hind wings blackish cinereous. Length of the body 6 lines; of the wings 11 lines.

a. Hindostan. From Archdeacon Clerk's collection.

This is a very abnormal species, and may form a new genus, and, perhaps, should be removed from the *Asopidæ*.

Genus 14. AGROTERA.

Corpus gracile. Proboscis longiuscula. Palpi erecti, squamosi; articulus 2us truncatus; 3us trigonus, latissimus. Palpi maxillares obsoleti. Antennæ longæ, submoniliformes, subpubescentes. Abdomen conicum, alas posticas paullo superans. Pedes graciles, nudi, longiusculi; calcaria longa, inæqualia. Alæ longiusculæ, sat angustæ; anticæ subfalcatæ, margine exteriore undulato; posticæ subtruncatæ.

Asopia, p., *Treit.; Duponch.*

Agrotera, *Schranck, Faun. Boic.* 163; *Hübn.*; *Herr.-Schæff.*; *Guen. Delt. et Pyral.* 217.

Body slender. Proboscis rather long. Palpi vertical, separated, squamous; second joint truncate; third triangular, very broad. Maxillary palpi obsolete. Antennæ long, submoniliform, minutely pubescent. Abdomen conical, extending a little beyond the hind wings, slightly tufted on each side. Legs slender, bare, rather long; spurs long, unequal. Wings rather long and narrow. Fore wings subfalcate; exterior border undulating. Hind wings slightly truncated.

1. AGROTERA NEMORALIS.

Pallide flava; corpus luteo varium; caput, thorax antice et abdomen apicem versus fusca; alæ lineis duabus undulatis dentatis fuscis; anticæ luteo lineatæ, apud medium fuscæ, extus cervinæ, fimbria alba fusco strigata; posticæ cinereæ.

Phalæna nemoralis, *Scop. Ent. Carn.* 242, 618.
Pyralis nemoralis, *Wien. Verz.* 123, 34. *Hübn. Pyral.* pl. 15, f. 100. *Ill. Ausg.* ii. 26, 34; *Mag.* iv. 7, 34. *Schr. Faun. Boic.* ii. 2, 64, 1719.
Phalæna Erosalis, *Fabr. Ent. Syst.* iii. 2, 236, 405.
Agrotera nemoralis, *Hübn. Verz. Schm.* 348, 3339. *Herr.-Schæff. Eur. Schm.* iv. 12. *Guen. Delt. et Pyral.* 217, 179.
Asopia nemoralis, *Treit. Schm.* vii. 156, 9. *Dup. Lép.* 203, pl. 223, f. 6.

a, *b*. Europe. From M. Becker's collection.

2. AGROTERA? RUMINALIS.

Mas. *Rufescente-cinerea; antennæ submoniliformes, subciliatæ; alæ linea marginali albida; anticæ peraculæ, linea interiore obliqua alba, spatio exteriore pallido, punctis costalibus nigris; posticæ linea exteriore alba extus nigro diffuse marginata.*

Male. Reddish cinereous. Proboscis and palpi short. Antennæ submoniliform, very minutely ciliated. Abdomen somewhat tumid at the tip, extending a little beyond the hind wings. Wings with a slender whitish marginal festoon. Fore wings very acute;

a white oblique line before the middle; exterior space pale, excepting a marginal line, which is dilated towards the costa, where there are two or three black points. Hind wings with a white line beyond the middle, bordered on the outer side partly and diffusedly with black. Length of the body 3 lines; of the wings 6 lines.

a. North Hindostan. From Mr. Stevens' collection.

Genus 15. ENDOTRICHA.

Corpus gracile. Frons plana. Proboscis longiuscula. Palpi brevissimi, graciles, subascendentes; articulus 3us obtusus. Palpi maxillares obsoleti. Antennæ submoniliformes, mari pubescentes. Thoracis tegulæ pilis longissimis. Abdomen alas posticas superans. Pedes læves, calcaribus longis inæqualibus. Alæ longiusculæ, non latæ; anticæ vix falcatæ, margine exteriore subconvexo; posticæ margine exteriore subflexo.

Endotricha, *Zeller; Herr.-Schæff.; Guen. Delt. et Pyral.* 218.
Asopia, p., *Treit.; Dup.*
Agrotera, *Hübn.; Steph.*

Body slender. Front flat. Proboscis rather long. Palpi slightly ascending, slender, separate, very short; third joint obtuse. Maxillary palpi obsolete. Antennæ submoniliform, pubescent in the male. Tegulæ of the thorax diverging; their hairs very long. Abdomen extending beyond the hind wings, with a large apical tuft in the male, with a prominent and very slender oviduct in the female. Legs bare, moderately stout; spurs long, unequal. Wings rather long, not broad. Fore wings hardly falcate; exterior border slightly convex. Hind wings with the exterior border slightly bent.

1. Endotricha flammealis.

Flava; abdomen apice rufescens; alæ rufescentes, fascia lata media obliqua flava, linea marginali pallida, fimbria albida; anticæ punctis costalibus flavis, linea submarginali subundulata pallida, fimbria nigricante notata, reniformi parva nigricante.

Pyralis flammealis, *Wien. Verz.* 123, 35. *Hübn. Pyral.* pl. 15, f. 99. *Illig. Ausg.* ii. 26, 35.

Asopia flammealis, *Treit. Schm.* vii. 155, 8. *Dup. Lép.* 205, pl. 223, f. 7.
Phalæna meritalis? *Fabr. Ent. Syst.* iii. 2, 234, 396.
Agrotera flammealis, *Hübn. Verz. Schm.* 348, 3338. *Steph. Ill. Brit. Haust.* iv. 28.
Endotricha flammealis, *Zell. Herr.-Schæff. Eur. Schm.* iv. 12. *Guen. Delt. et Pyral.* 219, 180.

a—h. England. From Mr. Stephens' collection.
i—n. England.
o, p. Europe. From M. Becker's collection.

South America.

2. ENDOTRICHA SUBULALIS.

Mas. *Stramineo-alba; antennæ apud medium fractæ, nodosæ, articulis quatuor sequentibus dilatatis pectinatis; abdomen incisuris albis nigro marginatis; alæ semihyalinæ, nigro reticulatæ, macula exteriore magna nigra; anticæ valde acutæ, margine exteriore flexo inciso, fimbria nigro notata; posticæ margine exteriore flexo dentato.*

Endotricha subulalis, *Guen. Delt. et Pyral.* 221, 184.

Brazil.

3. ENDOTRICHA JULIALIS.

Fœm. *Ochracea, subtus albida; tarsi antici nigricante bifasciati; pedes postici robusti; alæ fascia marginali lata purpurea nigro marginata, fimbria flava nigricante varia basi interrupte nigra; anticæ acutæ, vix falcatæ, lineis duabus fuscescentibus.*

Female. Ochraceous, whitish beneath. Head whitish about the eyes. Antennæ rather long. Abdomen extending rather far beyond the hind wings. Fore tarsi with two blackish bands. Hind femora and hind tibiæ stout. Wings with a broad marginal purple band, which is bordered with black; fringe yellow, with blackish intervals, and with an interrupted black basal line. Fore wings acute, hardly falcate, with two slight brownish lines; exterior border convex. Length of the body 4 lines; of the wings 10 lines.

Brazil. In Mr. Saunders' collection.

a. ———?

Asia.

4. Endotricha suffusalis.

Fœm. *Purpurascente-rosea; palpi erecti, arcuati; abdomen apice luteum; alæ fimbria flava basi ex parte rosea; anticæ costa lutea nigro et extus albo notata, linea interiore undulata flava fasciaque contigua obliqua lutea, linea submarginali nigra, linea marginali atra nonnunquam e punctis; posticæ linea interiore flava undulata.*

Female. Purplish rosy, minutely speckled with black, luteous beneath. Wings purple, and varied with black beneath. Palpi erect, curved, not rising above the vertex. Tegulæ of the thorax long. Abdomen luteous towards the tip. Oviduct exserted. Wings with a yellow fringe, which is partly rosy towards the base. Fore wings luteous along the costa, which is slightly marked with black and exteriorly with white; a yellow undulating interior line, which adjoins an oblique luteous band, the latter diffuse on the outer side; submarginal line black, parallel to the marginal line, which is deep black, and occasionally composed of points. Hind wings with a yellow undulating interior line; marginal line of deep black points. Length of the body 3 lines; of the wings 7 lines.

a—d. Ceylon. From Mr. Stevens' collection.

5. Endotricha decessalis.

Mas. *Ochraceo-rufa; antennæ albidæ, submoniliformes; alæ fimbria albida basi rufa nigro notata; anticæ acutæ, non falcatæ, costa lituris nigris et pallidis, linea submarginali pallida vix obliqua aut arcuata fusco submarginata, orbiculari et reniformi e squamis paucis nigris.*

Male. Ochraceous-red, testaceous and varied with red beneath. Antennæ whitish, submoniliform. Wings more entirely red towards the exterior border; fringe whitish, red and slightly marked with black towards the base; marginal points black. Fore wings acute, not falcate; costa with alternate black and pale marks; submarginal line pale, almost upright, hardly curved, indistinctly brown-bordered; orbicular and reniform marks very slightly indicated by black flecks. Length of the body 3½ lines; of the wings 8 lines.

a, b. Ceylon. Presented by R. Templeton, Esq.

Australasia.

6. Endotricha Portialis.

Fœm. *Obscure rosea; alæ vix lineatæ, linea marginali nigra tenui; anticæ costa lutea nigricante notata, fimbria rosea apud alæ apicem flava; posticæ fimbria flava basi rosea.*

Female. Dull rosy, tinged with cinereous beneath. Wings with almost obsolete indications of several lines; marginal line black, slender, composed of points in the hind wings. Fore wings dull luteous, and with elongate blackish marks along the costa; fringe rosy, yellow at the tips. Hind wings with the fringe yellow, rosy at the base. Length of the body 3½ lines; of the wings 8 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

7. Endotricha Cydippealis.

Mas. *Alba; palpi breves, obtusi; antennæ submoniliformes, subsetosæ; alæ acutæ, lineis interiore et exteriore undulatis spatioque marginali fuscis, margine exteriore undulato; anticæ reniformi e strigis duabus fuscis, lineis apud costam nigris.*

Male. White. Palpi short, obtuse. Antennæ submoniliform, minutely setose, rather shorter than the body. Abdomen attenuated, extending far beyond the hind wings. Wings acute, irregularly cinereous-brown along the exterior border, which is undulating; interior and exterior lines brown, undulating. Fore wings with two transverse brown streaks representing the reniform mark; the lines black along the costa. Length of the body 2½ lines; of the wings 6 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Australia.

8. Endotricha pyrosalis.

Ochraceo-flava; abdominis dimidium posticum ferrugineo-rufum, pilis apicalibus flavis; alæ ferrugineo-rufo conspersæ; anticæ lineis duabus remotis obliquis subrectis, puncto discali obscuro, fimbria albida basi nigricante, margine exteriore recto obliquo; posticæ rotundatæ, basi flavæ unicolores, linea duplicata ferruginea.

Endotricha pyrosalis, *Guen. Delt. et Pyral.* 219, 181.
Australia.

9. ENDOTRICHA IGNEALIS.

Fœm. *Fulvescens*, E. pyrosali *affinis ; abdomen violaceo-fuscum ; alæ anticæ puncto discali lineisque duabus valde remotis vix conspicuis, margine exteriore subflexo ; posticæ violaceo plus tinctæ, linea pallidiore angulata nigricante marginata, margine exteriore subflexo, lineis duabus subtus parallelis bene determinatis.*

Endotricha ignealis, *Guen. Delt. et Pyral.* 220, 182.
Australia.

10. ENDOTRICHA PULCHRINALIS.

Mas. *Lutea ; antennæ pubescentes ; thoracis latera rufescentia ; abdomen ferrugineum, basi luteum ; alæ anticæ rubricantes, lineis duabus subparallelis lineaque marginali albis nigro marginatis, margine interiore basi flavo ; posticæ linea antice dilatata margineque lato nigris.*

Endotricha pulchrinalis, *Guen. Delt. et Pyral.* 220, 183.
a. Sydney. From Mr. Diggles' collection.

Genus 16. LEUCINODES.

Corpus vix robustum. Oculi exserti. Proboscis tenuis. Palpi longi; oblique ascendentes; articulus 2us pilosus; 3us lanceolatus, 2i dimidio non brevior. Palpi maxillares obsoleti. Antennæ maris pubescentes, fœm. filiformes longiusculæ. Abdomen validum, carinatum, alas posticas longe superans. Pedes graciles, læves, calcaribus inæqualibus. Alæ albæ, semihyalinæ, lituris squamosis; anticæ subfalcatæ.

Leucinodes, *Guen. Delt. et Pyral.* 221.

Body hardly stout. Eyes prominent. Proboscis very slight. Palpi long, obliquely ascending; second joint pilose; third lanceolate, full half the length of the second. Maxillary palpi obsolete. Antennæ minutely pubescent in the male, filiform and rather long in the female. Abdomen stout, keeled, extending much beyond the hind wings, tufted at the tip in the male, ending with an obtuse

tip in the female. Legs slender, smooth, moderately long, with very unequal spurs. Wings white, semihyaline, with squamous markings. Fore wings subfalcate; exterior border slightly convex or undulating.

Type, *L. orbonalis.*

West Indies.

1. Leucinodes imperialis.

Fœm. L. elegantali *valde affinis, minor; palpi breviores, oblique ascendentes, articulo 3o non replicato; alæ angustiores, spatio basali cervino, macula apud marginem interiorem obliqua antice rotundata postice non dilatata.*

Leucinodes imperialis, *Guen. Delt. et Pyral.* 223, 187.

Haiti.

South America.

2. Leucinodes elegantalis.

Alba; caput et thorax fuscescentia; alæ semihyalinæ, falcatæ; anticæ basi nigro squamosæ, macula apud marginem interiorem trigona ferruginea, striga lata apud marginem interiorem anticum fusca maculaque contigua oblonga nigro-fusca; posticæ linea subapicali pallide fusca.

Leucinodes elegantalis, *Guen. Delt. et Pyral.* 222, 185.

a. Rio Janeiro. From Mr. Lamb's collection.

Africa.

3. Leucinodes orbonalis.

Alba; alæ opalinæ; anticæ basi ochraceæ, fascia antice testacea postice dilatata et ochracea, lineis duabus nigris incompletis, macula subapicali fusca; posticæ puncto discali lineaque exteriore incompleta fuscis.

Leucinodes orbonalis, *Guen. Delt. et Pyral.* 223, 187.

Java.

a, b. Ceylon. Presented by R. Templeton, Esq.
c. Hindostan. Presented by E. Doubleday, Esq.
d. Punjaub. Presented by General Hearsay.
e. Port Natal. From M. Gueinzius' collection.

Asia.

4. Leucinodes sigulalis.

Fœm. *Alba; palpi ascendentes, anguluti, subsecuriformes, articulis villoso squamosis indistinctis; alæ opalinæ, fimbria lata; anticæ obtusæ, basi lineaque interiore fuscis, macula magna apicali e lituris duabus, una fusca, altera cinerea, fimbria punctis basalibus rufis; posticæ striga discali lineaque flexuosa pallide fuscis, macula apud marginem interiorem obscuriore, punctis submarginalibus nigris.*

Leucinodes sigulalis, *Guen. Delt. et Pyral.* 223, 188.

Hindostan.

5. Leucinodes melanopalis.

Fœm. *Alba; palpi breves, squamosi, articulo 3o obtuso indistincto; abdomen fuscum; pedes antici nigro cincti; alæ opalinæ, linea marginali fusca duplicata, fimbria apice fuscescente, margine exteriore non flevo; anticæ angustæ, spatio basali nigro-fusco, dimidio exteriore fuscescente vario, margine exteriore quadrato; posticæ lineis duabus maculaque apicali nigricante-fuscis.*

Leucinodes melanopalis, *Guen. Delt. et Pyral.* 224, 189.

Hindostan.

6. Leucinodes? Heranicealis.

Mus. *Alba; palpi cinereo-fusci, breves, incumbentes, obtusi, pilosi; antennæ validæ, compressæ; alæ lineis duabus flavescentibus valde interruptis; anticæ apice rotundatæ, lituris basalibus strigaque marginali antica fuscis squamosis; posticæ macula apud marginem interiorem squamosa fusca, gutta subapicali nigricante.*

Male. White. Palpi short, pilose, incumbent, obtuse, cinereous, stout, compressed, simple. Abdomen extending very little beyond the hind wings, with two minute diverging tufts at the tip. Wings with two much interrupted yellowish lines. Fore wings with some irregular squamous brown marks at the base, and with a short brown streak along the fore part of the exterior border, where the fringe also is brownish; tips rounded; exterior border very slightly oblique. Hind wings with a brown squamous spot by the

middle of the interior border, and with a blackish subapical dot. Length of the body 3 lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 17. HYMENIA.

Corpus sat robustum. Proboscis valida. Palpi ascendentes, subarcuati; articuli 1us et 2us lati, squamosi; 3us gracilis, lanceolatus, bene determinatus. Antennæ setaceæ, simplices. Abdomen cylindricum, alas posticas superans. Pedes graciles, læves, calcaribus longis subæqualibus. Alæ rotundatæ, concolores, lituris non diversis; anticæ angustæ, apice obtusæ. *Mas.*—Antennæ validæ; articulus 1us nodosus. Abdomen fasciculo apicali lato.

Hymenia, *Hübn. Verz. Schm.* 360.
Spoladea, *Guen. Delt. et Pyral.* 324.

Body moderately stout. Proboscis stout, moderately long. Palpi slightly curved, ascending, vertical; first and second joints broad, squamous; third slender, lanceolate, very distinct. Antennæ setaceous, simple, rather short in the tropical species, stout and with the first joint nodose in the male, slender in the female. Abdomen cylindrical, extending a little beyond the hind wings, with a broad apical tuft in the male. Legs slender, smooth; spurs long, nearly equal. Wings rounded, alike in colour, and with similar markings. Fore wings narrow, obtuse at the tips. Hind wings well developed.

North America.

1. HYMENIA PERSPECTALIS.

Nigro-fusca, subtus alba; abdominis segmenta albo marginata; alæ testaceo variæ, fimbria albo varia; anticæ lineis duabus albis, 1a arcuata, 2a informi interrupta antice abbreviata; striga exteriore transversa costali punctisque duobus posterioribus nonnnnquam obsoletis albis; posticæ fascia obliqua dentata alba.

Pyralis perspectalis, *Hübn. Exot. Schm. Pyral.* f. 101.
Hymenia perspectalis, *Hübn. Verz. Schm.* 361, 3452.
Spoladea perspectalis, *Guen. Delt. et Pyral.* 226, 192.

a, *c*. Jamaica. From Mr. Gosse's collection.
d—*g*. St. Domingo. From Mr. Tweedie's collection.

h—j. Venezuela. From Mr. Dyson's collection.
k. Rio Janeiro. From Mr. Lamb's collection.
l. North Hindostan. From Mr. Stevens' collection.
m, n. ———? From Mr. Milne's collection.
o, p. ———?

West Indies.

2. Hymenia recurvalis.

Fusca, subtus alba ; caput fimbria postica flavo-alba ; abdominis segmenta albo marginata ; alæ æneo tinctæ, fascia obliqua antice abbreviata alba, fimbria albo varia ; anticæ striga exteriore transversa costali punctisque duobus posterioribus albis. Var.—*Alæ anticæ linea interiore anticæ abbreviata alba.*

Phalæna recurvalis, *Fabr. Ent. Syst.* iii. 2, 237, 407.
Phalæna angustalis, *Fabr. Mant.* 222, 309.
Spoladea recurvalis, *Guen. Delt. et Pyral.* 225, 190.

a, b. Jamaica.
c—e. St. Domingo. From Mr. Tweedie's collection.
f. Venezuela. From Mr. Dyson's collection.
g, h. Honduras. From Mr. Dyson's collection.
i. Santarem. From Mr. Bates' collection.
j—l. Sierra Leone. Presented by the Rev. D. F. Morgan.
m, n. Sierra Leone. From Mr. Foxcroft's collection.
o, p. Congo. Presented by Sir J. Richardson.
q—s. Bagdad. Presented by W. K. Loftus, Esq.
t, v. Ceylon. Presented by R. Templeton, Esq.
u—aa. Ceylon. From Mr. Stevens' collection.
bb. Hindostan. From Archdeacon Clerk's collection.
cc, dd. North Hindostan. From Mr. James' collection.
ee. North Hindostan. From Mr. Stevens' collection.
ff—hh. China. Presented by G. T. Laye, Esq.
ii—ll. Shanghai. From the collection of the Entomological Society.
mm, nn. Australia. From M. Damel's collection.
oo. Australia. From Mr. Stutchbury's collection.
pp. Australia. From Dr. Stevenson's collection.
qq—ss. Sydney. From Mr. Lambert's collection.
tt, vv. Moreton Bay. From Mr. Diggles' collection.
uu. New Zealand (Auckland). Presented by Col. Bolton.
ww, xx. New Zealand. Presented by Dr. Sinclair.

South America.

3. Hymenia animalis.

Fœm. *Testacea; abdomen fusco-cinereum, albo cinctum, basi apiceque testaceis; alæ anticæ nigro-fuscæ, basi testaceo variæ, linea interiore fasciisque duabus albis, fascia 1a interrupta valde sinuata, punctis tribus exterioribus lineolaque albis; posticæ albidæ, nigricante variæ, fascia media alba arcuata, margine lato nigro.*

Spoladea animalis, *Guen. Delt. et Pyral.* 226, 191.

Pernambuco.

Africa.

4. Hymenia Alimenalis.

Fœm. *Cinereo-fusca; palporum articulus 3us 2i dimidio non longior; abdominis segmenta albo marginata; alæ linea interiore nigro-fusca, macula disculi transversa elongata alba semihyalina; anticæ linea media nigro-fusca antice obsoleta, gutta interiore albâ semihyalina*

Female. Cinereous-brown, whitish beneath. Third joint of the palpi about half the length of the second. Antennæ moderately long. Abdominal segments bordered with white. Wings with a dark brown interior line, and with a white semihyaline elongated transverse discal spot; fringe cinereous. Fore wings with a middle dark brown line, which is almost obsolete in front, and with a white semihyaline dot representing the orbicular mark. Length of the body 5 lines; of the wings 12 lines.

a. Sierra Leone. From Mr. Foxcroft's collection.

Australia.

5. Hymenia exportalis.

Fœm. S. perspectali *affinis, major; palporum articulus 3us magis erectus et acutus; alæ lituris minus bene determinatis, fimbria fere unicolori; posticæ obscuriores, fascia cyanescente-alba concisa incisuris indistinctis.*

Spoladea exportalis, *Guen. Delt. et Pyral.* 227, 193.

Australia.

Genus 18. ISOPTERYX.

Corpus gracile. Palpi subascendentes, compressi, squamosi, non longi; articulus 2us apice quadratus; 3us filiformis, distinctus. Palpi maxillares parvi, lineares, oblique ascendentes, sæpe indistincti. Antennæ setulis æqualibus. Abdomen alas posticas paullo superans. Alæ læves, subnitentes, concolores, lituris non diversis; anticæ angustæ; posticæ plus minusve sinuatæ.

Isopteryx, *Guen. Delt. et Pyral.* 227.

Body slender. Palpi compressed, rounded, roughly squamous, slightly ascending, not extending much beyond the head; second joint quadrate at the tip; third filiform, distinct. Maxillary palpi small, linear, obliquely ascending, often indistinct. Antennæ with little bristles of equal size. Abdomen extending a little beyond the hind wings. Wings smooth, slightly shining, not hyaline, alike in colour, and with like markings. Fore wings narrow. Hind wings with the exterior border more or less sinuated.

North America.

A. Alæ albidæ.
  A. Thorax non nigro punctatus. - - aplicalis, *Guen.*
  B. Thorax nigro punctatus. - - Leucothoalis, *Guen.*
B. Alæ ochraceo-flavæ.
  A. Alæ posticæ annulis nullis. - - - magualis, *Guen.*
  B. Alæ posticæ annulis duobus. - - - stenialis, *Guen.*
C. Alæ cinereo-fuscæ. - - - - obliteralis, *Guen.*

1. Isopteryx aplicalis.

Mas. *Sordide alba; thoracæ guttatus; abdomen conspersum; alæ lineis nigricante-violaceis, linea marginali latiuscula, fimbria basi fusca; anticæ lineis exteriore et submarginali costam versus approximatis, reniformi maxima quasi duplicata, costa notata; posticæ gutta discali lineam interiorem emittente.*

Isopteryx aplicalis, *Guen. Delt. et Pyral.* 229, 199.
Georgia.

2. ISOPTERYX MAGNALIS.

Mas et fœm. *Pallide ochraceo-flava; alæ linea marginali fusca, fimbria interlineata; anticæ linea exteriore e fascia inæquali alba fusco marginata postice dilatata, reniformi magna quadrata fusca disco cinereo, orbiculari obscura non bene determinata lineam interiorem nigricantem emittente, costa nigro punctata; posticæ fasciis duabus inæqualibus latis albis.*

Isopteryx magnalis, *Guen. Delt. et Pyral.* 230, 201.

North America.

3. ISOPTERYX STENIALIS.

Fœm. *Pallide ochraceo-flava; alæ nigricante variæ, linea marginali atra, fimbria interlineata; anticæ linea interiore, orbiculari annuloque posteriore contiguis, macula magna nigricante reniformem arcuatam flavam includente, linea exteriore flava nigricante marginata lineolam anticam nigram includente; posticæ linea annulisque duobus nigricantibus, dimidio exteriore nigricante lineata.*

Isopteryx stenialis, *Guen. Delt. et Pyral.* 231, 203.

Georgia.

4. ISOPTERYX? OBLITERALIS.

Fœm. *Cinereo-fusca; palpi oblique ascendentes, subarcuati; articulus 3us lanceolatus, 2i dimidio brevior; alæ fasciis duabus subochraceis valde diffusis, guttis marginalibus nigris; anticæ apice rotundatæ, linea marginali e lunulis albidis, reniformi ochracea maculaque contigua alba subquadratis.*

Female. Cinereous-brown, whitish cinereous beneath. Palpi obliquely ascending, slightly curved; third joint lanceolate, less than half the length of the second. Antennæ slender. Wings with two very diffuse dull ochraceous bands; marginal dots black; fringe cinereous. Fore wings rounded at the tips, moderately oblique along the exterior border; marginal line whitish, composed of irregular lunules; reniform mark ochraceous, transversely subquadrate, adjoining an exterior white mark of like shape. Length of the body 3 lines; of the wings 7 lines.

a. United States. Presented by E. Doubleday, Esq.

5. Isopteryx? Leucothoalis.

Fœm. *Alba, gracilis; palpi subarcuati, oblique ascendentes, articulo 3o distincto gracili brevissimo longi-conico; antennæ validæ, simplices, submoniliformes; thorax nigro punctatus; abdomen attenuatum, alas posticas longe superans; alæ angustæ, fasciis cervinis indistinctis diffusis, lineis duabus fuscis undulatis interruptis, punctis marginalibus nigris; anticæ punctis costalibus nigris; posticæ puncto costali nigro.*

Female. White, slender. Palpi obliquely ascending, slightly curved; third joint distinct, slender, elongate-conical, not more than one-fourth of the length of the second. Antennæ stout, simple, submoniliform. Thorax with black points. Abdomen attenuated, extending far beyond the hind wings. Wings narrow, with indistinct and diffuse fawn-coloured bands, and with two more distinct but interrupted undulating brown lines; marginal points black. Fore wings acute, with the lines terminating in black costal points. Hind wings with a black costal point before the middle. Length of the body 2½ lines; of the wings 5 lines.

a. United States. Presented by E. Doubleday, Esq.

South America.

A. Thorax nigro punctatus.
- *A.* Alæ linea 3a valde sinuata. - - decostalis, *Guen.*
- *B.* Alæ linea 3a minus sinuata. - - - apygalis, *Guen.*

B. Thorax non punctatus.
- *A.* Alæ anticæ cervinæ. - - - multiplicalis, *Guen.*
- *B.* Alæ cinereo-albæ. - - - - tenellalis, *Guen.*

6. Isopteryx multiplicalis.

Mas. *Cervina; palporum articulus 3us brevis, truncatus; abdomen albidum, fusco conspersum; alæ non sinuatæ, linea marginali fusca, fimbria alba antice nigro notata; anticæ albo semihyalino variæ, lineis tribus venisque fuscis; posticæ sordide albæ, apice venisque pallidissime fuscis, lineis duabus fuscis arcuatis denticulatis, interiore interrupta.*

Isopteryx multiplicalis, *Guen. Delt. et Pyral.* 227, 194.

Brazil.

7. Isopteryx tenellalis.

Mas. I. fœdali *simillima, minor; palporum articulus 3us fere totus albus; alæ basi magis albæ, atomis magis flavescentibus, punctis marginalibus ex parte obliteratis; posticæ linea exteriore minus flexuosa.*

Isopteryx tenellalis, *Guen. Delt. et Pyral.* 228, 196.

Cayenne.

8. Isopteryx decostalis.

Mas. *Fumoso-alba; thoracæ nigro punctatus; abdomen basi candidum; alæ lineis tribus valde sinuatis lineaque marginali fuscis; anticæ orbiculari et reniformi e annulis duobus, hac angulata lineam 2am emittente, illa rotundata lineam 1am emittente, costa nigro notata subtus replicata saccalum fingente.*

Isopteryx decostalis, *Guen. Delt. et Pyral.* 229, 197.

Brazil.

9. Isopteryx apygalis.

Fœm. I. decostali *simillima, minor; alæ magis albæ, linea 3a minus sinuata, linea marginali minus integra, atomis exterioribus minus determinatis; anticæ punctis costalibus diversis.*

Isopteryx apygalis, *Guen. Delt. et Pyral.* 229, 198.

Colombia.

Asia.

A. Alæ non chalybeo variæ.
  A. Alæ albido variæ.
    a. Palpi nigro non notati.
      a. Palporum articulus 3us brevissimus. melaleucalis, *Walk.*
      b. Palporum articulus 3us non brevissimus. spilomelalis, *Walk.*
    b. Palpi nigro notati. - - - - fœdalis, *Guen.*
  B. Alæ ochraceæ aut cervinæ.
    a. Antennæ non serratæ. - - - acclaralis, *Walk.*
    b. Antennæ maris serratæ. - - - impulsalis, *Walk.*

B. Alæ chalybæo variæ.
A. Alæ anticæ maculis costalibus. abnegatalis, *Walk.*
B. Alæ anticæ punctis costalibus. accessalis, *Walk.*

10. Isopteryx fœdalis.

Fœm. *Alba; corpus nigricante notatum; palporum articulus 2us apice 3us basi nigri; alæ cinereo nebulosæ, nigricante conspersæ, lineis duabus valde flexis, punctis marginalibus bene determinatis, litura discali; anticæ litura discali claviformi albo marginata.*

Isopteryx fœdalis, *Guen. Delt. et Pyral.* 228, 195.
Hindostan.

11. Isopteryx melaleucalis.

Fœm. *Nigra, subtus albida; alæ angustæ, extus cinerascentes strigis parvis transversis semihyalinis albis, fimbria ex parte alba; anticæ acutæ, subfalcatæ, lineis interiore et exteriore albis undulatis obliquis, hac interrupta, macula oblonga semihyalina et reniformi minima albis; posticæ fasciis duabus semihyalinis albis, margine exteriore subundulato.*

Female. Black, whitish beneath. Proboscis short. Palpi porrect, short, stout, obtuse, pilose; third joint conical, very short. Antennæ slender, simple. Abdomen with white bands, extending a little beyond the hind wings. Legs white. Wings narrow; exterior part tinged with cinereous, with little white transverse semihyaline streaks, which are most prevalent on the hind wings; marginal line black; fringe partly white. Fore wings acute, subfalcate; exterior border very oblique; interior and exterior lines white, undulating, oblique; the latter interrupted on each side of an oblong semihyaline white dot; reniform mark white, very small. Hind wings with two white semihyaline bands, the one basal, the other in the middle; exterior border slightly undulating. Length of the body 2½ lines; of the wings 6 lines.

a. Ceylon. From Mr. Stevens' collection.

12. ISOPTERYX SPILOMELALIS.

Mas. *Albida; palpi erecti; articulus 3us gracilis, acutus, 2i dimidio brevior; antennæ validæ, simplices; thorax nigro guttatus; alæ fasciis obliquis deviis incompletis cinereo-fuscis, lineis duabus nigricantibus undulatis 2a flexa, punctis marginalibus nigris; anticæ costa nigro notata.*

Male. Whitish. Palpi vertical; third joint slender, acute. less than half the length of the second. Antennæ stout, simple. Thorax with black dots. Abdomen extending for nearly half its length beyond the hind wings, somewhat compressed towards the tip; apical tuft long. Wings with oblique irregular and incomplete cinereous-brown bands; interior and exterior lines blackish, undulating, the latter bent; marginal points black, irregular. Fore wings with four black marks on the costa; the second and the fourth terminating the interior and exterior lines; the third elongated hindward to the disk. Length of the body 2 lines; of the wings 5½ lines.

a. Ceylon. From Mr. Stevens' collection.

13. ISOPTERYX ACCLARALIS.

Mas. *Pallide ochracea, subtus alba; thorax albo binotatus; alæ lineis duabus nigricantibus undulatis valde diffusis, linea marginali alba fusco marginata, margine exteriore valde undulato; anticæ valde acutæ, lituris variis albis fusco marginatis; posticæ lineis duabus albis fusco marginatis, exteriore undulata.*

Male. Pale ochraceous, mostly white beneath. Palpi white, slightly ascending; tips of the joints pale ochraceous; third joint linear, conical at the tip, about half the length of the second. Antennæ bare, rather stout. Thorax with a white mark in front. Abdomen hardly extending beyond the hind wings. Wings with two undulating and very diffuse blackish lines, and with a white brown-bordered marginal line; exterior border very undulating. Fore wings very acute, with several white brown-bordered marks of various shape and size. Hind wings with two white brown-bordered lines; the exterior one undulating. Length of the body 2½ lines; of the wings 7 lines.

a. Ceylon. Presented by R. Templeton, Esq.

14. Isopteryx? impulsalis.

Mas. *Cervina, cinereo varia; antennæ serratæ, corpore vix breviores; alæ angustæ, nigro conspersæ, fasciis duabus obliquis deviis abbreviatis nigricantibus albo extus marginatis, punctis marginalibus nigris, fimbria alba apice cinerea; anticæ macula discali transversa albida.*

Male. Fawn-colour, partly cinereous, more cinereous beneath. Antennæ serrated, nearly as long as the body. Abdomen extending somewhat beyond the hind wings. Wings narrow, speckled with black, with two oblique blackish bands, which are more or less abbreviated and irregular in front, and are irregularly bordered with white on the exterior side; marginal points black, irregular; fringe white, partly cinereous exteriorly. Fore wings with a transverse semicircular whitish spot representing the reniform mark. Length of the body 2½ lines; of the wings 6 lines.

a. Ceylon. From Mr. Stevens' collection.

15. Isopteryx? abnegatalis.

Mas et fœm. *Lutea; palpi ascendentes, obtusi, articulo 3o minimo; antennæ albidæ, validæ, submoniliformes; thorax chalybeo bifasciatus; abdomen fasciis abbreviatis nigris; alæ fasciis deviis obliquis arcuatis nigro-cinereis chalybeo ornatis puncta elongata flava includentibus.*

Male and female. Luteous, yellow beneath. Palpi ascending, obtuse; third joint very small. Antennæ whitish, stout, submoniliform. Thorax with two chalybeous bands. Abdomen with abbreviated blackish bands. Wings with irregular oblique curved cinereous blackish bands, whose disks are chalybeous and contain transverse elongated yellow points. Hind wings with fewer and more incomplete bands than those of the fore wings. Length of the body 3 lines; of the wings 7 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b—g. Ceylon. From Mr. Stevens' collection.
h. Moreton Bay. From Mr. Diggles' collection.

This or the following species may be identical with *I. plumbalis*, but hardly accord with Guenée's description.

16. Isopteryx accessalis.

Mas et fœm. *Cinerea, subtus albida; alæ chalybeo tinctæ, punctis transversis elongatis fasciisque tribus obliquis deviis flavis, fimbria flava guttis elongatis fuscis; anticæ fasciis valde incompletis; posticæ fasciis dilatatis connexis.*

Male and female. Cinereous, whitish beneath, closely allied to *I. abnegatalis*. Abdomen pale. Wings with a chalybeous tinge, and with elongated transverse yellow points; three irregular oblique yellow bands, which are very incomplete in the fore wings, more complete, dilated and partly connected in the hind wings; fringe yellow, with elongated brown dots. Length of the body 3 lines; of the wings 7 lines.

a—*c*. China. Presented by G. T. Laye, Esq.
d. Shanghai. From the collection of the Entomological Society.
e. Moreton Bay. From Mr. Diggles' collection.

Australasia.

17. Isopteryx Cyanealis.

Fœm. *Lutea; caput album; palpi breves, ascendentes, articulo 3o minimo; antennæ filiformes, graciles, longiusculæ; thorax fusco fasciatus; alæ fusco conspersæ et extus spurcatæ, lineis fuscis subundulatis, linea marginali pallida, fimbria cinerea basi fusca; anticæ sat acutæ, margine exteriore perobliquo; posticæ margine exteriore truncato.*

Female. Luteous. Head white. Palpi short, ascending; third joint very minute. Antennæ filiform, slender, rather long. Thorax with irregular brown bands. Wings with brown speckles, which are mostly confluent exteriorly; interior, exterior and submarginal lines brown, somewhat undulating; marginal line pale; fringe cinereous, brown at the base. Fore wings rather acute; exterior border very oblique. Hind wings with the exterior border somewhat truncated. Length of the body 3 lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Country unknown.

18. Isopteryx ochropteralis.

Mas. *Fulva; antennæ robustæ, serratæ, pubescentes; alæ linea interiore subobsoleta, (?) linea exteriore alba intus fusco marginata, linea marginali fusca, fimbria nigricante tincta, margine sinuato; anticæ falcatæ, linea exteriore flexa, reniformi e lunula magna alba fusco marginata.*

Isopteryx ochropteralis, *Guen. Delt. et Pyral.* 230, 209.

19. Isopteryx plumbalis.

Pallide violaceo-cinerea; antennæ submoniliformes, subpubescentes; abdomen flavum, cinereo conspersum, incisuris albis; alæ squamis plumbeo-metallicis conspersæ, maculis magnis ochraceo-flavis; anticæ maculis tribus magnis duabusque minoribus guttisque costalibus; posticæ dimidio basali flavo punctum discale lituramque abdominalem fuscam includente, dimidio exteriore cinereo maculam magnam flavam includente.

Isopteryx plumbalis, *Guen. Delt. et Pyral.* 231, 292.

Fam. 4. STENIADÆ.

Corpus gracile. Caput magnum. Oculi exstantes. Palpi hirsuto squamosi, recti aut subascendentes, sæpissime rostriformes. articulis indistinctis. Palpi maxillares conspicui. Antennæ longæ, filiformes, nonnunquam subsetosæ aut moniliformes. Thorax brevis. Abdomen longissimum, attenuatum. apice acutum. Pedes læves, gracillimi, longissimi, tarsis anticis longissimis. Alæ obscuræ, sæpe pulverulentæ; anticæ angustæ, lanceolatæ, lineis maculisque distinctis.

Steniadæ, *Guen. Delt. et Pyral.* 232.

Body slender. Head large. Eyes prominent. Palpi hirsute, squamous, straight or slightly ascending, porrect or slightly ascending, most often rostriform; joints indistinct. Maxillary palpi visible. Antennæ long, filiform, sometimes finely setose, sometimes moniliform. Thorax short. Abdomen very long, attenuated, acute at the tip. Legs smooth, very slender, very long; the fore pair with very long tarsi. Wings quite opaque, often pulverulent. Fore wings narrow, lanceolate, with distinct lines and spots.

A. Proboscis conspicua.
  A. Corpus gracile.
    a. Palpi longissimi.
      a. Antennæ longissimæ.
        i. Pedes longi. - - - - - 3. TINODES, *Guen.*
        ii. Pedes longissimi. - - 11. CAZERANTIA, *Walk.*
      b. Antennæ non longissimæ. - - 4. NASCIA, *Curt.*
    b. Palpi non longissimi.
      a. Abdomen alas posticas non superans. 5. HYPOLAIS, *Guen.*
      b. Abdomen alas posticas superans.
        i. Palpi maxillares plus minusve distincti.
          * Antennæ breviusculæ. - 1. DIASEMIA, *Steph.*
          ** Antennæ longæ.
            † Alæ anticæ margine exteriore flexo.
              2. LIMNODES, *Guen.*
            †† Alæ anticæ margine exteriore non flexo.
              7. STENIA, *Guen.*
        ii. Palpi maxillares non conspicui. - 12. EZOTA, *Walk.*
  B. Corpus sat robustum. - - - - 6. AENIA, *Guen.*
B. Proboscis non conspicua.
  A. Palpi maxillares obsoleti. - - 8. SEDENIA, *Guen.*
  B. Palpi maxillares conspicui.
    a. Palpi trigoni. - - - - 9. METASIA, *Guen.*
    b. Palpi gracillimi. - - - 10. PARTHENODES, *Guen.*

Genus 1. DIASEMIA.

Corpus gracile. Ocelli conspicui. Palpi rostriformes, incumbentes, squamosi, capite transverso longiores. Palpi maxillares distincti, trigoni, exteriores. Antennæ maris pubescentes. Abdomen conicum, alas posticas superans. Pedes læves, longi, graciles; calcaria inermia; tibiæ anticæ brevissimæ. Alæ angustæ, longiusculæ; anticæ subacutæ, margine exteriore perobliquo; posticæ margine exteriore subsinuato.

Diasemia, Steph. Brit. Haust. iv. 37; Guen. Ddt. et Pyral. 233.
Nymphula, p., Treit.
Hydrocampa, p., Dup.
Botys, p., Herr-Schaff.

Body slender. Ocelli prominent. Proboscis of moderate length. Palpi rostriform, incumbent, longer than the breadth of

the head, coarsely squamous. Maxillary palpi distinct, squamous, triangular, more outward than the labial palpi. Antennæ moderately long, pubescent in the male. Abdomen conical, extending beyond the hind wings. Legs long, slender, bare; spurs long; fore tibiæ very short. Wings narrow, rather long. Fore wings slightly acute; exterior border very oblique. Hind wings with the exterior border slightly sinuated.

1. Diasemia litteralis.

Fusca, albido conspersa; abdomen albo fasciatum; alæ lineis tribus obliquis variis albis, fimbria albo strigata; anticæ lineis dilatatis nigricante interlineatis.

Phalæna litterata, *Scop. Ent. Carn.* 229, 574.
Pyralis litteralis, *Wien. Verz.* 122, 15. *Hübn. Pyral.* pl. 15, f. 86. *Schr. Faun Boic.* ii. 2, 63, 1716. *Ill. Auss.* ii. 17, 15.
Phalæna-Pyralis reticularis? *Linn. Faun. Suec.* 1355. *Gmel. ed. Syst. Nat.* i. 5, 2525, 341.
Phalæna argentalis, *Fabr. Ent. Syst.* iii. 2, 240, 419.
Nymphula litteralis, *Treit. Schm.* vii. 131, 5.
Hydrocampa litteralis, *Dup. Lép.* viii. 2, 188, pl. 222, f. 7.
Diasemia litteralis, *Steph. Ill. Brit. Haust.* iv. 37. *Guen. Delt. et Pyral.* 233, 204.
Botys litteralis, *Herr.-Schæff. Eur. Schm.* iv. 26.

a—g. England. From Mr. Stephens' collection.
h—l. England.
m—p. Europe. From M. Becker's collection.
q, r. Germany. From M. Heminghoffen's collection.
s. Italy. From Dr. Leach's collection.

2. Diasemia? Ramburialis.

Obscure fusca; alæ æqualiter coloratæ et signatæ, strigulis transversis ferrugineo-flavis, lineis albis, linea exteriore in angulum acutum basim versus apertum fracta, fimbria alba nigro interlineata.

Hydrocampa Ramburialis, *Dup. Lép.* viii. 2, 343, pl. 233, f. 6. *Fisch.-Rosl. Schm.* 281, pl. 93, f. 3.
Botys Ramburialis, *Herr.-Schæff. Eur. Schm.* iv. 26, 68.
Diasemia Ramburialis, *Guen. Delt. et Pyral.* 205, 234.

Austria. Corsica.

Genus 2. LINEODES.

Corpus gracillimum. Proboscis mediocris. Palpi porrecti, breves, validi, subrostriformes, articulis indistinctis. Antennæ gracillimæ, submoniliformes, corpore longiores. Abdomen subcylindricum, alas posticas dimidio superans. Pedes læves, longiusculi, sat graciles, calcaribus longis. Alæ perangustæ; anticæ lanceolatæ, apice subrotundatæ, margine exteriore subflexo valde obliquo.

Lineodes, *Guen. Delt. et Pyral.* 235, 206.

Body very slender. Proboscis moderately long. Palpi porrect, short, stout, somewhat rostriform; joints indistinct. Antennæ very long and slender, submoniliform, longer than the body. Abdomen nearly cylindrical, extending for half its length beyond the hind wings. Legs smooth, rather long and slender; spurs long. Wings very narrow. Fore wings lanceolate, slightly rounded at the tips; exterior border slightly bent, very oblique.

1. LINEODES HIEROGLYPHALIS.

Cinereo-ferruginea; alæ anticæ inter venas nigro strigatæ, maculis quatuor variis subtrigonis nigro marginatis fasciaque arcuata exteriore, striga adhuc exteriore lineaque submarginali interrupta albis semihyalinis; posticæ bis triente interiore albida semihyalina maculam fuscam reniformem nigro marginatam includente.

Lineodes hieroglyphalis, *Guen. Delt. et Pyral.* 235, 201.

Brazil.

2. LINEODES PULCHRINALIS.

Fœm. *Fusca; alæ fulvo alboque variæ; anticæ linea interiore arcuata alba fusco marginata, faseiola fulvo-alba non obliqua apud medium coarctata, linea exteriore alba annuliformi nigro marginata; posticæ linea alba sinuata interiore, linea exteriore magis recta plus obliqua, triangulo intermedio fulvo alboque vario, fimbria alba nigro notata.*

Lineodes pulchrinalis, *Guen. Delt. et Pyral.* 236, 207.

Brazil.

3. LINEODES CONTORTALIS.

Fœm. *Fusca; alæ anticæ albo nigroque variæ, linea valde contorta e fascia fusca spatioque albo intus marginata; posticæ non dentatæ vix sinuatæ, disco violaceo-aurato semihyalino, margine nigricante.*

Lineodes contortalis, *Guen. Delt. et Pyral.* 236, 208.

Brazil.

Genus 3. TINEODES.

Mas. Corpus gracile. Proboscis tenuis. Palpi validi, contigui, squamoso-hirsuti, recti aut incumbentes, capite quadruplo longiores; articuli indistincti. Palpi maxillares non conspicui. Antennæ graciles, moniliformes, longissimæ, non pubescentes. Abdomen attenuatum, alas posticas longe superans. Pedes læves, graciles, longi; calcaria brevia. Alæ squamosæ, valde angustæ, concolores, lituris non diversis; anticæ lanceolatæ, valde acutæ, costa apicem versus arcuata, margine exteriore recto valde obliquo.

Tineodes, *Guen. Delt. et Pyral.* 236.

Male. Body slender. Proboscis slight, hidden between the palpi. Palpi stout, contiguous, hirsute-squamous, straight or incumbent, full four times the length of the body; joints indistinct. Maxillary palpi not visible. Antennæ slender, moniliform, very long, not pubescent. Abdomen attenuated, extending far beyond the hind wings. Legs smooth, slender, long; spurs short. Wings squamous, very narrow, alike in colour and with like markings. Fore wings lanceolate, very acute; costa curved towards the tip; exterior border straight, very oblique.

1. TINEODES ADACTYLALIS.

Mas. *Pulverulento-cinerea; alæ anticæ linea exteriore nigra indistincta, squamis discalibus contiguis albis, orbiculari et reniformi nigris, hac e striga recta albo marginata, illa punctiformi, linea marginali nigra, fimbria nigro alboque varia; posticæ cinereæ, linea nigricante vix conspicua, costa anguloque interiore nigro notatis.*

Tineodes adactylalis, *Guen. Delt. et Pyral.* 237, 209.

Africa?

Genus 4. NASCIA.

Corpus vix robustum. Proboscis mediocris. Palpi longi, validi, rostriformes, subincumbentes; articuli indistincti. Palpi maxillares breves, obtusi, oblique ascendentes. Antennæ graciles, filiformes, squamosi, setulis paucis, subtus pubescentes. Abdomen alas posticas non superans. Pedes glabri, sat validi, non longi. Alæ mediocres; anticæ subacutæ, margine exteriore recto.

Epicorzia? *Hübn. Verz. Schm.* 355.
Nascia, *Curt. Brit. Ent.* xii. 559; *Steph.*; *Guen. Delt. et Pyral.* 237.
Duponchelia, *Zell. Isis*; *Herr.-Schæff.*

Body moderately stout. Proboscis moderately long. Palpi long, stout, rostriform, slightly incumbent; joints indistinct. Maxillary palpi short, obtuse, obliquely ascending. Antennæ slender, filiform, squamous, pubescent beneath, slightly setulose. Abdomen not extending beyond the hind wings. Legs smooth, rather stout, not long. Wings moderately broad. Fore wings slightly acute; exterior border straight, moderately oblique.

Type, *N. acutalis.*

1. NASCIA ACUTALIS.

Pallide ochracea; oculi albo cincti; alæ anticæ costa venisque ferrugineis, fimbria albida basi fusca; posticæ flavo-albidæ.

Chilo acutellus, *Eversm. Bull. Mosc.* 1842; *Faun.-Volg. Ural.* 540.
Nascia cilialis, *Curt. Brit. Ent.* xii. pl. 599.
Pyralis cilialis? *Hübn. Pyral.* pl. 18, f. 119. *Treit. Schm.* vii. 124.
Margaritia cilialis? *Steph. Ill. Brit. Haust.* iv. 53, 16.
Duponchelia cilialis, *Herr.-Schæff. Eur. Schm.* iv. 8, 3, f. 60.
Nascia acutalis, *Guen. Delt. et Pyral.* 238, 210.

South Russia. Sicily. England?

Note.—The following species should certainly be removed from this genus.

2. Nascia ?? fovealis.

Nigricante-cinerea; frons rotundata; palpi brevissimi, arcuati, obtusi; alæ linea exteriore albida, punctis marginalibus nigris, fimbria albida, nigro interlineata; anticæ costa extus flavescente, linea interiore albida angulata, macula adhuc exteriore quadrata, linea exteriore undulata, reniformi vacua; posticæ linea exteriore arcuata distincta.

Duponchelia fovealis, *Zell. Isis*, 1847, 588. *Herr.-Schæff. Eur. Schm.* iv. 8, 2, f. 3.

Nascia fovealis, *Guen. Delt. et Pyral.* 239, 211.

Syracuse.

Genus 5. HYPOLAIS.

Corpus gracile. Palpi recti, acuti, squamoso-hirsuti, capite duplo longiores, articulis indistinctis. Palpi maxillares breves, filiformes, apice contigui. Antennæ breviusculæ, pubescentes, annulati, serrati. Abdomen conicum, alas posticas non superans. Pedes longi, graciles, squamosi. Alæ latæ, trigonæ; anticæ pulverulentæ, costa concava; posticæ angulis rotundatis, fimbria longa.

Botys, p., *Dup.*

Hypolais, *Guen. Delt. et Pyral.* 239.

Body slender. Palpi porrect, acute, hirsute-squamous, twice the length of the head; joints indistinct. Maxillary palpi short, filiform, contiguous at the tips. Antennæ rather short, subserrate, pubescent, with black rings. Abdomen conical, not extending beyond the hind wings. Legs long, slender, squamous. Wings broad, triangular. Fore wings pulverulent; costa concave; markings very slight. Hind wings with the angles rounded; fringe broad.

1. Hypolais Siccalis.

Mas. *Pallide ochracea; alæ anticæ fimbria nigro-cinerea interlineata; lineis interiore et exteriore remotis tremulis indecisis e squamis albis nigricante terminatis, 1a subarcuata, 2a antice arcuata postice bifida, reniformi e squamis albis, costa albo lineata atomis nigricantibus; posticæ sericeo-cinereæ, linea media subobsoleta.*

Hypolais Siccalis, *Guen. Delt. et Pyral.* 240, 212.

Andalusia.

2. Hypolais nemausalis.

Mas. *Cinereo-flavescens; abdomen cinereum; alæ anticæ cinereo conspersæ, lineis tribus dentatis cinereis indistinctis; posticæ cinereæ, fascia diffusa obscuriore.*

Botys nemausalis, *Dup. Lép.* viii. 2, 377, pl. 236. f. 240.
Hypolais nemausalis, *Guen. Delt. et Pyral.* 240, 213.

Nismes.

Genus 6. ARNIA.

Corpus sat robustum. Proboscis conspicua. Palpi validi, incumbentes, villosi, caput superantes. Palpi maxillares parvi, vix conspicui. Antennæ pubescentes. Abdomen subconicum, alas posticas paullo superans. Alæ robustæ, farinosæ; anticæ apice elongatæ, venis bene determinatis, fimbria apices versus arctata.

Arnia, *Guen. Expl. Sci. Alg.* iii. 152; *Delt. et Pyral.* 240.

Body rather stout. Proboscis apparent between the palpi. Palpi stout, incumbent, villose, contiguous at the tips, extending beyond the head. Maxillary palpi small, hardly visible. Antennæ pubescent. Abdomen cylindric-conical, extending a little beyond the hind wings. Wings stout, not shining, as it were mealy. Fore wings elongate at the tips; veins prominent; fringe straitened towards the tips.

1. Arnia nervosalis.

Statura M. suppandalis; *alæ anticæ albidæ, passim ochraceæ, venis albis, strigis inter eas subcinereo-fuscis maculisque mediis duabus luteis subcinereo circumdatis; posticæ albæ.*

Arnia nervosalis, *Guen. Explor. Scient. de l'Alger. Anim. Artic.* iii. 399, 152, pl. 4, f. 6; *Delt. et Pyral.* 241, 214.

Algiers.

Genus 7. STENIA.

Corpus gracillimum. Ocelli distincti. Palpi porrecti aut incumbentes, validi, longiusculi, hirsuto-squamosi; articulus 3us indistinctus. Palpi maxillares plus minusve distincti. Antennæ longæ, graciles, filiformes, setulosæ aut submoniliformes. Abdo-

men lineare, attenuatum, alas posticas plus minusve superans. Pedes læves, longi, gracillimi, calcaribus longis inæqualibus. Alæ non aut vix nitentes, concolores, lituris non diversis; anticæ acutæ, plus minusve lanceolatæ.

Synaphe, p., *Hübn. Verz. Schm.* 347.
Asopia, p., *Dup.*
Nymphula, p., et Botys, p., *Treit.*
Stenia, *Guen. Cat. Dup.; Delt. et Pyral.* 241; *Herr.-Schæff.*
Margaritia, p, *Steph. Brit. Haust.*
Dolycharthria, *Steph. Cat. Brit. Lep.*

Body very slender. Head prominent. Ocelli distinct. Proboscis moderately long. Palpi porrect or incumbent, stout, hirsute-squamous, rather long, of two colours; third joint indistinct. Maxillary palpi more or less distinct. Antennæ long, slender, filiform, sometimes finely setulose, sometimes with triangular joints and thus moniliform. Abdomen linear, attenuated, generally long, extending more or less beyond the hind wings. Legs smooth, long, very slender; spurs long, not equal. Wings not or hardly shining, alike in colour and with like markings. Fore wings acute, more or less lanceolate.

Europe.

A. Alæ pallidæ.
  A. Alæ anticæ linea nulla plumbea.
    a. Alæ posticæ macula discali nigra. - Bruguieralis, *Lef.*
      a. Alæ anticæ cinereæ. - - - - - Adelalis, *Guen.*
      b. Alæ anticæ cinereo-carneæ. - - carnealis, *Treit.*
      c. Alæ anticæ pallide ochraceæ.
        i. Alæ anticæ lineis nigris. - - Ophialis, *Treit.*
        ii. Alæ anticæ lineis fuscescentibus.
          punctalis, *Wien. Verz.*
  A. Alæ anticæ lineis plumbeis. - - - ornatalis, *Parr.*
B. Alæ nigricantes. - - - - stigmosalis, *Herr.-Schæff.*

1. Stenia Bruguieralis.

Fusco-cinerea; abdomen albo cinctum; alæ nigricante conspersæ, linea exteriore valde undulata punctisque marginalibus nigris; anticæ linea interiore obliqua, orbiculari, macula posteriore et reniformi annuliformi nigris; posticæ macula discali nigra.

Botys Bruguieralis, *Lefebvre, Dup. Lép.* viii. 2, 320, pl. 232, f. 3.

Stenia Bruguieralis, *Herr.-Schæff. Eur. Schm.* iv. 14, 17, pl. 12, f. 84. *Guen. Delt. et Pyral.* 245, 224.

South France. Corsica. Sicily. Spain. Asia Minor.

2. Stenia Adelalis.

Mas. S. Bruguierali *simillima, minor; alæ anticæ plus cinereæ, minus flavescentes, magis elongatæ, lineæ exterioris margine pallido apud costam flavescente, plaga apicali trigona cinerea, linea marginali integra pallide cinerea; posticæ pallidissime cinereæ, lituris nullis.*

Stenia Adelalis, *Guen. Delt. et Pyral.* 245, 225.

Hyères.

3. Stenia Ophialis.

Albo-ochracea; alæ nigro conspersæ, lineis interiore et exteriore undatis punctisque marginalibus nigris; anticæ guttis duabus basalibus nigris, orbiculari et reniformi e annulis duobus nigris, linea exteriore valde flexa.

Botys ophialis, *Treit. Schm.* vii. 90, 8. *Dup. Lép.* viii. 2, 326, pl. 232, f. 6. *Fisch.-Rosl. Pyr.* pl. 6, f. 2.

Stenia ophialis, *Herr.-Schæff. Eur. Schm.* iv. 14, 18, pl. 6, f. 38. *Guen. Delt. et Pyral.* 246, 227.

Hungary. Corsica.

4. Stenia carnealis.

Pallide cinereo-carnea; alæ linea exteriore valde undulata lineaque marginali nigris; anticæ linea interiore undulata et reniformi annuliformi nigris.

Botys carnealis, *Treit. Schm.* vii. 91, 9.

Stenia carnealis, *Herr.-Schæff. Eur. Schm.* iv. 13, 16, pl. 6, f. 39, 40. *Guen. Delt. et Pyral.* 246, 228.

South France. Dalmatia, Sicily.

5. Stenia ornatalis.

Ferruginea; alæ ex parte pallidiores, linea exteriore undulata lineaque marginali plumbeis; anticæ lineis duabus basalibus, orbiculari reniformique plenis plumbeis.

Asopia ornatalis, *Parreyss, Dup. Lép.* viii. 2, 207, pl. 223, f. 8.
Botys saturnalis, *Treit. Supp.* 2, 9.
Nymphula ornatalis, *Herr.-Schæff. Eur. Schm.* iv. 10, 6, pl. 8, f. 52, 53.
Stenia ornatalis, *Guen. Delt. et Pyral.* 247, 229.

Sicily.

6. Stenia punctalis.

Pallide ochracea; alæ fuscescente conspersæ, lineis duabus undatis indistinctis fuscescentibus; anticæ reniformi sublunari alba; posticæ cinerascentes.

Pyralis punctalis, *Wien. Verz.* 123, 25. *Ill. Ausg.* ii. 22, 25. *Hübn. Pyral.* pl. 21, f. 140.
Phalæna punctalis, *Fabr. Ent. Syst.* iii. 2, 228, 371.
Nymphula punctalis, *Treit. Schm.* vii. 130, 4.
Asopia ætnealis, *Dup. Lép.* viii. 2, 199, pl. 223, f. 4.
Synaphe punctalis, *Hübn. Verz. Schm.* 347, 3326.
Margaritia longipedalis, *Steph. Brit. Haust.* iv. 65, 20.
Stenia punctalis, *Herr.-Schæff. Eur. Schm.* iv. 14, 19, pl. 4, f. 24. *Guen. Delt. et Pyral.* 248, 232.
Dolycharthria punctalis, *Steph. Cat. Lep. Brit. Mus.* 212.

a. England. Presented by J. C. Dale, Esq.
b—m. England. From Mr. Stephens' collection.

7. Stenia stigmosalis.

Nigricans; caput apud oculos palpique subtus alba; alæ linea exteriore undulata lineaque marginali nigris; anticæ orbiculari punctiformi et reniformi albis; posticæ puncto discali albo.

Stenia stigmosalis, *Herr.-Schæff. Eur. Schm.* iv. 14, 20, pl. 4, f. 20. *Guen. Delt. et Pyral.* 249, 233.

Constantinople.

North America.

8. Stenia ranalis.

Mas. *Stramineo-alba; antennæ setulis parvis approximatis indistinctis; abdomen longum, segmento apicali longissimo; alæ lineis nigricantibus, bene determinatis, strigis marginalibus nigris; anticæ linea 1a non arcuata, 2a posticæ abbreviata, costæ dimidio basali nigricante, reniformi angusta; posticæ lineis parallelis, 2a postice abbreviata et dilatata.*

Stenia ranalis, *Guen. Delt. et Pyral.* 243, 219.

North America.

South America.

A. Alæ albæ aut albidæ.
  A. Alæ anticæ costa hirsuta. - - - colubralis, *Guen.*
  B. Alæ anticæ costa non hirsuta.
    a. Abdomen fusco tinctum. - - - batracalis, *Guen.*
    b. Abdomen candidum. - - - saponalis, *Guen.*
B. Alæ flavescentes.
  A. Abdomen non cinereum. - - - lacertalis, *Guen.*
  B. Abdomen dimidio postico cinerascente. - vilialis, *Guen.*
C. Alæ anticæ fumoso-flavæ. - - - saurialis, *Guen.*
D. Alæ anticæ fuscescentes. - - - - testulalis, *Geyer.*
E. Alæ anticæ cinerascentes.
  A. Abdomen subtus album. - - - agraphalis, *Guen.*
  B. Abdomen subtus nigricans. - - - hemialis, *Guen.*
F. Alæ anticæ violaceo-cinereæ. - - - grammalis, *Guen.*
G. Alæ anticæ nigro-cinereæ. - - - - bufalis, *Guen.*

9. Stenia saurialis.

Mas. *Fumoso-flava; antennæ setulis longis incurvis; alæ anticæ valde angustæ, basi albæ, marginem exteriorem versus rufo-fuscæ, costa recta alba, linea costam versus conspicua punctisque paucis marginalibus nigris; posticæ albæ, margine exteriore apud medium subinfumato.*

Stenia saurialis, *Guen. Delt. et Pyral.* 242, 215.

Cayenne.

10. STENIA COLUBRALIS.

Mas. *Alba; alæ anticæ lineis tribus rectis vix tremulis, exteriore angulum interiorem attingente, reniformi bene determinata lineam 2am emittente, orbiculari costam fere attingente, costa fusco lineata apud reniformem squamis hirsuta puncto nigricante, macula apicali trigona rufescente, punctis marginalibus nigris, fimbria nigricante-plumbea; posticæ lituris minus distinctis.*

Stenia colubralis, *Guen. Delt. et Pyral.* 242, 216.

Cayenne.

11. STENIA BATRACALIS.

Mas et fœm. *Albida, antennæ setulis incurvis; abdomen fusco tinctum; alæ costa margineque exteriore rufescente-fusco pallido tinctis, lineis interiore et exteriore fuscis denticulatis bene determinatis, punctis marginalibus nigris; anticæ linea submarginali, orbiculari et reniformi fuscis distinctis.*

Stenia batracalis, *Guen. Delt. et Pyral.* 243, 217.

Brazil.

12. STENIA SAPONALIS.

Mas. *Alba, candida; antennæ setulis longis incurvis; abdomen longissimum, valde acutum; alæ margine exteriore vix rufescente; anticæ lineis tribus et maculis discalibus pallide fuscis bene determinatis, orbiculari remota rotundata, reniformi magna elongata rectangulata, linea submarginali recta angulum interiorem attingente; posticæ linea exteriore valde sinuata.*

Stenia saponalis, *Guen. Delt. et Pyral.* 243, 218.

Cayenne.

13. STENIA LACERTALIS.

Mas. *Stramineo-alba; antennæ setulis longis inæqualibus incurvis; abdomen segmenti penultimi margine flavo; alæ subnitentes, lineis interiore et exteriore punctisque marginalibus inæqualibus nigris; anticæ linea submarginali magis distincta antice recta postice flexa angulumque interiorem attingente; posticæ lineis duabus parallelis, 2a denticulata.*

Stenia lacertalis, *Guen. Delt. et Pyral.* 244, 220.

Brazil.

14. STENIA VILIALIS.

Mas et fœm. *Pallidissime ochracea; antennæ setulis longis subarcuatis; abdomen dimidio posteriore cinerascente; alæ subnitentes, punctis marginalibus fuscis, fimbria lata, linea submarginali tantum distincta antice recta postice dentata; anticæ reniformi vix conspicua, costa æqualiter arcuata; posticæ linea submarginali postice abbreviata.*

Stenia vilialis, *Guen. Delt. et Pyral.* 244, 221.

Brazil.

15. STENIA AGRAPHALIS.

Mas. *Cinerascens; antennæ setulosæ; abdomen subtus album; tibiæ intermediæ incrassatæ; alæ anticæ elongatæ, acutæ, lituris nullis, areola non squamosa; posticæ sericeo-albæ, cinerascente marginatæ.*

Stenia agraphalis, *Guen. Delt. et Pyral.* 244, 222.

Brazil.

16. STENIA BUFALIS.

Fœm. *Nigro-cinerea; antennæ apices versus moniliformes; alæ linea marginali saturatiore subinterrupta, lineis interiore et exteriore nigris, hac tridentata, orbiculari et reniformi approximatis bene determinatis; posticæ lineis duabus indistinctis margineque lato nigricantibus.*

Stenia bufalis, *Guen. Delt. et Pyral.* 245, 223.

Cayenne.

17. STENIA GRAMMALIS.

Mas. *Violaceo-cinerea, ochraceo tincta; frons plana; palpi breves, arcuati, albi, nigro annulati; alæ anticæ costa apice rotundata, margine exteriore brevissimo, lineis interiore et exteriore remotis vix trenulis, hac albo marginata flexa, illa non obliqua, reniformi magna alba nigro marginata; posticæ cinereæ, lineis duabus obscurioribus indistinctis.*

Stenia grammalis, *Guen. Delt. et Pyral.* 249, 234.

Cayenne.

18. Stenia testulalis.

Mas et fœm. *Testacea; alæ anticæ fuscescentes, nigro ex parte adspersæ, guttis duabus interioribus et macula exteriore albo hyalinis nigro marginatis; posticæ albo-hyalinæ guttis nonnullis nigris, apice fuscæ, postice subflavescentes.*

Crochiphora testulalis (Pyralis vulgaris, Palpita repandata), *Geyer, Samml. Exot. Schmett.* iv. 12, 315, f. 629, 630.

Stenia testulalis, *Guen. Delt. et Pyral.* 247, 230.

Buenos Ayres. Cayenne.

19. Stenia hemialis.

Mas. *Testaceo-cinerea; antennæ longissimæ, moniliformes, non pubescentes; abdomen subtus nigricans; alæ punctis marginalibus nigris; anticæ longæ, angustæ, dimidio basali pallidiore semihyalino, litura apicali obliqua nigra apud lineam exteriorem dilatata, reniformi nigra oblonga concisa, punctis quatuor costalibus nigris; posticæ pallidiores, semihyalinæ.*

Stenia hemialis, *Guen. Delt. et Pyral.* 248, 231.

Brazil.

Africa.

20. Stenia Pipleisalis.

Mas. *Testacea, fuscescente subconspersa; palpi oblique ascendentes, subangulati; articulus 3us longi-conicus, 2i dimidio non brevior; abdomen albo fasciatum; alæ fasciis duabus obliquis deviis semihyalinis albis fusco aut nigro interlineatis; anticæ valde acutæ, fascia exteriore latissimo maculam testaceam subcostalem includente.*

Male. Testaceous, slightly speckled with pale brown. Palpi obliquely ascending, slightly angular; third joint elongate-conical, more porrect than the second and full half its length. Abdomen with white bands. Wings with two irregular white oblique semihyaline bands, which are partly interlined with brown or black, and partly traversed by the veins, and thus appear macular; exterior border with black speckles. Fore wings very acute, exterior band very broad, containing a testaceous spot, connected with the costa

and occupying the site of the reniform mark. Length of the body 4 lines; of the wings 10 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

21. STENIA? LANCEOLALIS.

Mas et fœm. *Testaceo-cinerea; palpi breves, arcuati, articulo 3o distincto; antennæ* fœm. *filiformes; alæ lineis duabus nigricantibus ochraceo marginatis valde denticulatis; lunulis marginalibus subcontiguis nigris, fimbria cinerea; anticæ maculis discalibus indistinctis valde approximatis puncto intermedio pallido.*

Stenia lanceolalis, *Guen. Delt. et Pyral.* 246, 226.

Cape.

Genus 8. SEDENIA.

Corpus gracile. Frons prominens, conica, truncata. Palpi rostriformes, conici, incumbentes, capite duplo longiores, articulis indistinctis. Palpi maxillares obsoleti. Antennæ submoniliformes, subpubescentes. Abdomen depressum, alas posticas superans, pilis apicalibus sericeis. Alæ angustæ, oblongæ, non nitentes, fimbria sericea; anticæ apice productæ, obtusæ.

Sedenia, *Guen. Delt. et Pyral*: 249.

Body slender. Front prominent, conical, truncate at the tip. Palpi rostriform, conical, incumbent, twice the length of the head; joints indistinct. Maxillary palpi obsolete. Antennæ slightly moniliform, slightly pubescent. Abdomen depressed, extending beyond the hind wings, with silky apical hairs. Wings narrow, oblong, not shining; fringe silky. Fore wings prolonged towards the tips, which are obtuse.

1. SEDENIA CERVALIS.

Mas. *Rufescente aut ochraceo-alba; antennæ vix pubescentes; alæ fimbria concolori; anticæ linea valida vaga, margine exteriore, costam aculisque duabus discalibus vagis subæqualibus costam attingentibus rufescente-carneis; posticæ pallidiores, margine rufescente-carneo.*

Sedenia cervalis, *Guen. Delt. et Pyral.* 250, 235.

Australia.

2. SEDENIA RUPALIS.

Mas et fœm. *Alba, sericea, frons lateribus incisis, apice cylindrico-truncata; palpi subtus subarcuati; antennæ distincte pubescentes; alæ anticæ linea angulata, litura postica furcata, fascia exteriore subtrigona, orbiculari et reniformi cervinis; posticæ fusco-subtinctæ, fimbria alba.*

Sedenia rupalis, *Guen. Delt. et Pyral.* 250, 235.

Australia?

Genus 9. METASIA.

Corpus sat robustum. Frons squamoso-hirsuta. Proboscis obsoleta. Palpi lanceolati, subincumbentes, squamosi, capite transverso non longiores. Palpi maxillares distincti. Antennæ submoniliformes, vix pubescentes. Abdomen subcarinatum, alas posticas superans, lateribus dilatatis. Pedes glabri, sat graciles, calcaribus breviusculis. Alæ oblongæ, integræ, squamosæ; anticæ apice subrotundatæ, margine exteriore perobliquo.

Synaphe, p., *Hübn. Verz. Schm.* 347.
Pyralis, p., *Treit.; Herr.-Schæff.*
Cledeobia, p., *Dup.*
Stenia, p., *Herr.-Schæff.*

Body rather stout. Front squamous-hirsute. Proboscis obsolete. Palpi lanceolate, slightly incumbent, coarsely squamous, as long as the breadth of the head. Maxillary palpi distinct, almost conniving, about one-third of the length of the labial palpi. Antennæ submoniliform, hardly pubescent in the male. Abdomen slightly keeled, extending beyond the hind wings, rather dilated on each side. Legs rather slender, not pilose; spurs short, slender. Wings oblong, entire, coarsely squamous. Fore wings slightly rounded at the tips; exterior border very oblique.

1. METASIA OLBIENALIS.

Fœm. *Pallide ochracea; palpi subrecti, squamosi, capite non longiores; alæ linea exteriore e atomis nigricantibus, fimbria alba squamis apicalibus nigris; anticæ apice acutæ, linea interiore subobsoleta, exteriore apud medium dilatata, puncto discali; posticæ lanceolatæ, nigricante-cinereo conspersæ.*

Metasia Olbienalis, *Guen. Delt. et Pyral.* 251, 237.

Hyères.

2. METASIA SUPPANDALIS.

Sordide albida; alæ fasciis obliquis pallide cervinis.

Pyralis suppandalis, *Hübn. Pyral.* pl. 30, f. 187, 189, 190. *Treit. Schm.* vii. 50, 9.
Synaphe suppandalis, *Hübn. Verz. Schm.* 347, 3328.
Paraponyx suppandalis, *Hübn. Verz. Schm.* 362, 3462.
Cledeobia suppandalis, *Dup. Lép.* viii. 2, 81, pl. 4, f. 5.
Stenia suppandalis, *Herr.-Schæff. Eur. Schm.* iv. 13.
Pyralis serpentinalis, *Germ. Faun. Ins.* xv. pl. 19.
Metasia suppandalis, *Guen. Delt. et Pyral.* 252, 238.

a. Europe. From M. Heminghoffen's collection.

3. METASIA HYMENALIS.

Mas. *Alba; palpi breves, valde obtusi; alæ costa basali, fascia gutta discali margineque exteriore cervinis, fimbria fusco squamosa; anticæ fascia 2a remota.*

Metasia hymenalis, *Guen. Delt. et Pyral.* 252, 239.

Andalusia.

Genus 10. PARTHENODES.

Corpus gracile. Ocelli obsoleti. Proboscis nulla. Palpi longi, reeti, gracillimi; articulus 3us filiformis, valde acutus. Palpi maxillares distincti, squamosi, acute trigoni, labialium dimidio vix breviores. Antennæ brevisculæ, setulis longis fasciculatis subincurvis. Abdomen alas posticas superans. Pedes glabri, graciles, longi, calcaribus longis. Alæ oblongæ, concolores, sericeæ, non nitentes, lituris non diversis.

Parthenodes, *Guen. Delt. et Pyral.* 252.

Body slender. Ocelli and proboscis obsolete. Palpi long, straight, very slender; third joint filiform, very acute. Maxillary palpi very distinct, squamous, acutely triangular, rostriform, nearly half the length of the labial palpi. Antennæ rather short, with long tufted and slightly frizzled bristles. Abdomen extending beyond the hind wings. Legs smooth, slender, long; spurs long, filiform. Wings oblong, silky, not shining, alike in colour and with like markings.

1. PARTHENODES HYDROCAMPALIS.

Mas et fœm. *Alba, candida; palpi fuscescente-flavi; alæ lineis ochraceo-flavis concisis nigricante marginatis; anticæ costa subconvexa, apice obtusæ, angulo interiore valde rotundato, lineis duabus parallelis valde flexis; posticæ rotundatæ, lineis tribus remotis, 1a 2aque parallelis rectis oblongis, 3a arcuata margineque exteriore subparallelis.*

Parthenodes hydrocampalis, *Guen. Delt. et Pyral.* 253, 240
Cayenne.

2. PARTHENODES? XANTHOLEUCALIS.

Fœm. *Alba; alæ linea marginali vaga ochracea; anticæ trigonæ acutæ, costa recta, lineis duabus rectis parallelis remotis maculaque discali intermedia ochraceo-flavis; posticæ puncto discali interiore lituraque brevi apud angulum interiorem ochraceo-flavis.*

Parthenodes? xantholeucalis, *Guen. Delt. et Pyral.* 253, 241.
Georgia, United States.

Genus 11. CARCANTIA.

Mas. Corpus gracillimum. Proboscis gracilis. Palpi porrecti, compressi, hirsuto-squamosi, thorace vix breviores; articulus 3us 2o brevior. Antennæ longissimæ, graciles, submoniliformes. Thorax brevis. Abdomen longum, cylindricum, alas posticas plus dimidio superans. Pedes glabri, graciles, longissimi, calcaribus æqualibus breviusculis. Alæ valde angustæ, sat acutæ; anticæ margine exteriore perobliquo.

Male. Structure much resembling that of the *Pterophoridæ*, which family is nearly allied to the *Pyralites*. Body very slender. Proboscis slender, moderately long. Palpi porrect, compressed, hirsute-squamous, nearly as long as the thorax; third joint shorter than the second. Antennæ very long, slender, slightly moniliform. Thorax short. Abdomen long, cylindrical, extending for more than half the length beyond the hind wings. Legs smooth, slender, very long; spurs equal, rather short. Wings very narrow, rather acute. Fore wings with the exterior border extremely oblique.

1. CARCANTIA PTEROPHORALIS.

Mas. *Fuscescente-cinerea; caput subtus et pectus anticum alba; abdomen basi strigis duabus lateralibus nigris; alæ linea marginali nigra; anticæ fascies duabus obliquis abbreviatis strigaque interiore discali albidis nigro marginatis, punctis duobus costalibus subapicalibus albis.*

Male. Brownish cinereous. Head and palpi beneath and fore part of the pectus white. Antennæ cinereous, nearly as long as the body. Abdomen with a black streak on each side near the base; apical tuft pale cinereous. Legs whitish cinereous, shining. Wings with the marginal line black, interrupted in the hind wings. Fore wings with two slight oblique abbreviated whitish bands, and with an interior longitudinal discal whitish streak, which, like the bands, is irregularly bordered with black; two white costal subapical points. Hind wings with almost obsolete traces of marks like those of the fore wings. Length of the body 4 lines; of the wings 9 lines.

a. Australia. From Mr. Damel's collection.

Genus 12. ERCTA.

Mas. Corpus gracillimum. Proboscis longa. Palpi breves, ascendentes, subarcuati; articulus 3us brevissimus, oblique truncatus. Antennæ setaceæ, moniliformes, sat validæ. Thorax brevis. Abdomen longissimum, subcylindricum, alas posticas plus dimidio superans; fasciculus apicalis longiusculus. Pedes læves, longi, graciles, calcaribus inæqualibus. Alæ valde angustæ; anticæ lanceolatæ, apice subrotundatæ, margine exteriore perobliquo.

Male. Body very slender. Proboscis long. Palpi short, ascending, slightly curved; third joint very short, obliquely truncate. Antennæ setaceous, moniliform, rather stout. Thorax short. Abdomen very long, nearly cylindrical, extending for more than half its length beyond the hind wings; apical tuft rather long. Legs smooth, long and slender; spurs unequal. Wings very narrow. Fore wings lanceolate, somewhat rounded at the tips; exterior border very oblique.

1. ERCTA TIPULALIS.

Mas. *Fuscescente-cinerea; alæ punctis marginalibus nigris; anticæ costa margineque exteriore cervinis, vitta discali nigricante, orbiculari parva nigricante, reniformi e striga arcuata albida nigro marginata, margine interiore lato albido subhyalino; posticæ albidæ, subhyalinæ, margine exteriore subtestaceo, puncto discali nigro.*

Male. Brownish cinereous, whitish beneath. Wings with black marginal points. Fore wings fawn-colour along the costa and along the exterior border; an irregular blackish stripe extending from the base to the tips at a little in front of the middle; orbicular mark forming a blackish dot; reniform indicated by a curved whitish black-bordered streak; a broad whitish nearly hyaline stripe along the interior border. Hind wings whitish, nearly hyaline, with a slight testaceous tinge along the exterior border, and with a black marginal point. Length of the body 5 lines; of the wings 9 lines.

a. St. Domingo. From Mr. Tweedie's collection.

Fam. 5. HYDROCAMPIDÆ.

Corpus gracile. Caput sæpissime parvum. Frons angusta. Proboscis brevis, sæpe brevissima. Palpi squamosi, non rostriformes, plus minusve ascendentes; articuli distincti. Palpi maxillares plerumque conspicui. Antennæ sæpissime filiformes, longiusculæ. Abdomen alas posticas superans. Pedes glabri, plerumque longi et graciles; calcaria longa. Alæ sericeæ, tenues, læves, concolores, lituris non diversis. *Mas.*—Abdomen lineare, attenuatum. *Fœm.*—Abdomen tumidum, apice acutum.

Nymphalulidæ, *Duponch.*
Hydrocampidæ, *Guen. Delt. et Pyral.* 254.

Body slender. Head generally small. Front narrow, flat. Proboscis short, often rudimentary. Palpi squamous, not hirsute nor rostriform, more or less ascending; joints distinct. Maxillary palpi generally very distinct. Antennæ generally slender, filiform, and rather long. Abdomen extending beyond the hind wings, attenuated and linear in the male, tumid and with an acute tip in the female. Legs smooth, generally long and slender, and with long and slender spurs. Wings most often delicate, silky, smooth,

alike in colour and with like markings; ground-colour generally white.

A. Alæ posticæ ocellis nullis
  A. Palpi maxillares obsoleti. - - 1. PSEPHIS, *Guen.*
  B. Palpi maxillares vix conspicui. - - 7. CYMORIZA, *Guen.*
  C. Palpi maxillares conspicui.
    A. Ocelli distincti.
      a. Pedes pilosi. - - - - 2. AULACODES, *Guen.*
      b. Pedes non pilosi.
        i. Proboscis brevissima. - - 6. PARAPONYX, *Hübn.*
        ii. Proboscis brevis. - - - 8. HYDROCAMPA, *Latr.*
    B. Ocelli nulli.
      a. Antennæ valde moniliformes. - 3. HYDROPHYSA, *Guen.*
      b. Antennæ moniliformes. - 4. OLIGOSTIGMA, *Guen.*
B. Alæ posticæ ocellis marginalibus. - 5. CATACLYSTA, *Hübn.*

Genus 1. PSEPHIS.

Fœm. Corpus gracile. Proboscis brevissima. Palpi labiales ascendentes, disjuncti, sat longi; articulus 2us squamoso-hirsutus; 3us gracillimus, linearis, nudus, 2o pon brevior. Palpi maxillares obsoleti. Antennæ filiformes, sat breves. Abdomen alas posticas non superans. Pedes robusti, appressi, glabri, calcaria longa; tarsi crassi, squamosi. Alæ integræ, rotundatæ, lineis parum sinuatis, punctis marginalibus bene determinatis; anticæ latiuseulæ, apice obtusæ.

Psephis, *Guen. Delt. et Pyral.* 257

Female. Body slender. Proboscis very short. Palpi ascending, separated, rather long; second joint squamous-hirsute; third linear, smooth, very slender, as long as the second. Maxillary palpi obsolete. Antennæ filiform, rather short. Abdomen not extending beyond the hind wings. Legs robust, flattened, smooth; spurs long; tarsi thick, squamous. Wings entire, rounded; lines very slightly bent; marginal points very distinct. Fore wings rather broad, obtuse at the tips.

1. PSEPHIS MYRMIDONALIS.

Fœm. *Albida, cervino conspersa; alæ cinereo-albæ, fusco conspersæ; punctis marginalibus nigris; anticæ lineis quatuor strigaque obliqua discali cervinis; posticæ lineis duabus, 1a indistincta.*

Psephis myrmidonalis, *Guen. Delt. et Pyral.* 257.

Genus 2. AULACODES.

Mas. Corpus gracillimum. Ocelli distincti. Proboscis sat longa. Palpi breves, oblique ascendentes; articulus 2us latissimus, villoso-hirsutus; 3us brevis, truncatus. Palpi maxillares contigui, vix breviores. Antennæ longæ, graciles, moniliformes. Pedes longissimi, tibiis tarsisque anticis pilosis, tibiis posticis fasciculatis. Alæ tenuissimæ, oblongæ; anticæ angustæ, margine exteriore subflexo; posticæ angustæ, sinuatæ.

Aulacodes, *Guen. Delt. et Pyral.* 258.

Male. Body very slender. Ocelli distinct. Proboscis rather long. Palpi short, obliquely ascending; second joint very broad, villose-hirsute; third short, truncated. Maxillary palpi contiguous to the labial palpi and hardly shorter. Antennæ long, slender, moniliform. Legs very long; fore tibiæ and fore tarsi with squamous hairs; hind tibiæ with a large tuft of thick hairs at the base of their first pair of spurs; one of the spurs also pilose. Wings oblong, very delicate. Fore wings narrow, exterior border slightly bent. Hind wings short, sinuated.

1. AULACODES ÆSCHMIALIS.

Mas. *Cervina; alæ anticæ postice nigricante conspersæ, lineis duabus transversis albis subparallelis postice arcuatis, lineis duabus exterioribus valde obliquis postice abbreviatis maculaque intermedia trigona albis, striga posteriore nigra vaga, linea submarginali alba, fimbria nigro-cinerea albido bis interrupta; posticæ obscure cinereæ, lineis tribus albis incompletis, fimbria alba nigro interlineata.*

Aulacodes Æschmialis, *Guen. Delt. et Pyral.* 258, 243.

Cayenne.

Genus 3. HYDROPHYSA.

Mas. Corpus gracillimum. Ocelli nulli. Proboscis robusta, sat longa. Palpi quatuor longitudine æquales; articuli non diversi; 3us pilis apicalibus squamosis. Antennæ longæ, graciles, valde moniliformes. Abdomen alas posticas longe superans. Pedes gracillimi. Alæ tenuissimæ, oblongæ, angustæ, rotundatæ; posticæ breves.

Hydrophysa, *Guen. Delt. et Pyral.* 259.

Male. Body very slender. Ocelli obsolete. Proboscis robust, rather long. Labial and maxillary palpi of equal length; their joints alike; the third with squamous hairs. Labial palpi much apart, even at the base. Antennæ long, slender, very moniliform. Abdomen extending far beyond the hind wings. Legs very slender. Wings very delicate, oblong, narrow, rounded at the tips, with like markings, which consist of numerous slender lines. Hind wings short.

1. Hydrophysa psyllalis.

Mas. *Alba; alæ nigro et flavescente-fusco variæ; anticæ strigis basalibus nigris albisque, linea arcuata alba, litura X-formi nigra, linea exteriore arcuata alba, spatio apicali flavescente, linea submarginali alba nigro lineata, litura U-costali lituram V-nigram includente; posticæ lineis alternis nigris albis et flavescentibus.*

Hydrophysa psyllalis, *Guen. Delt. et Pyral.* 259.

Brazil.

Genus 4. OLIGOSTIGMA.

Corpus gracile. Ocelli nulli. Proboscis robusta, squamosa. Palpi quatuor longitudine æquales; labiales graciles, ascendentes, disjuncti, squamosi; articulus 3us 2o non gracilior. Antennæ longæ, nonnunquam crassæ et velutinæ, nonnunquam moniliformes. Abdomen alas posticas longe superans. Pedes longissimi; calcaria gracillima. Alæ valde oblongæ, vittis parallelis albis fulvisque alternis; anticæ margine exteriore sinuato, margine interiore subconcavo; posticæ punctis marginalibus nigris ocellatis sæpe ornatæ, apud angulum interiorem nonnunquam incisæ.

Oligostigma, *Guen. Delt. et Pyral.* 260.

Body slender. Ocelli obsolete. Proboscis robust, squamous, moderately long, separating the palpi. Palpi slender, ascending, squamous, separate; third joint as thick and as squamous as the second. Maxillary palpi as long and as distinct as the labial palpi. Antennæ long, thick and downy, or moniliform. Abdomen extending far beyond the hind wings. Legs very long; spurs very slender. Wings very oblong, with parallel bands, which are alternately white and tawny. Fore wings much longer than the hind wings; exterior border with a rounded band; interior border slightly concave. Hind wings with the exterior border rounded by the interior angle, often notched near that angle, and adorned with marginal ocelli.

North America.

1. Oligostigma Semínealis.

Mas. *Cinereo-cervina; palpi ascendentes; articulus 2us subarcuatus; 3us lanceolatus, 2i dimidio longior; palpi maxillares breviores; antennæ robustæ, submoniliformes; abdomen fasciis apiceque albis; alæ linea submarginali alba, linea marginali ochracea; anticæ vitta discali alba angulata fusco late marginata, linea marginali intus nigro marginata, extus lituris duplicatis angulatis nigris ornata.*

Male. Cinereous fawn-colour, whitish beneath. Palpi ascending; second joint slightly curved; third lanceolate, more than half the length of the second. Maxillary palpi much shorter than the labial. Antennæ stout, simple, submoniliform. Abdomen cylindrical, extending far beyond the hind wings, with whitish bands near the base, and with a whitish tip. Wings with a white submarginal line; marginal line ochraceous. Fore wings with a white discal stripe, which forms an obtuse angle, and is broadly bordered with brown on both sides; a slight transverse brown streak representing the reniform mark. Hind wings white and with a brown line at the base; a white straight discal line very broadly bordered with brown; an ochraceous marginal line, bordered with black on the inner side, and having on the outer side a double row of angular black marks, which are broadest at the tips of the wings. Length of the body 4—4½ lines; of the wings 8—9 lines.

a. United States. Presented by E. Doubleday, Esq.
b, c. ——— ? From Mr. Milne's collection.

South America.

2. Oligostigma juncealis.

Mas. *Alba; antennæ moniliformes; thorax fusco fasciatus; tibiæ anticæ fusco pilosæ; tarsi antici basi albo pilosi; alæ fascia marginali crocea nigro lineata; anticæ costa basali fasciaque obliqua flexa antice concisa postice diffusa fuscis, fascia submarginali fusca; posticæ breves, fascia fusca interiore, fascia exteriore fusca flavo varia, angulo interiore flavo, punctis tribus marginalibus nigris argenteo pupillatis.*

Oligostigma juncealis, *Guen. Delt. et Pyral.* 261, 245.

Cayenne.

Asia.

A. Alæ posticæ lituris marginalibus argenteis. - gibbosalis, *Guen.*
B. Alæ posticæ argenteo non ornatæ.
A. Antennæ crassæ. - - - - colonialis, *Guen.*
B. Antennæ graciles.
a. Alæ ochraceo lineatæ.
a. Alæ linea marginali angustiore. - Chrysippusalis, *Walk.*
b. Alæ linea marginali latiore. - - obitalis, *Walk.*
b. Alæ ochraceo non lineatæ. - - - votalis, *Walk.*

3. Oligostigma colonialis.

Fœm. O. crassicornali et O. Javanali *simillima; corpus flavum; abdomen brevius; alæ anticæ costa liturisque flavis; posticæ fascia la flava latiore magis vaga apud angulum exteriorem late dilatata, punctis tribus marginalibus nigris, una albo pupillata, margine exteriore inciso.*

Oligostigma colonialis, *Guen. Delt. et Pyral.* 262, 248.

Bombay.

4. Oligostigma gibbosalis.

Mas et fœm. *Alba; antennæ crassæ; abdomen alas posticas paullo superans; alæ anticæ flavescente-fusco sordidæ, margine interiore fulvo, plaga discali maris dense squamoso pilosa*

supra concava subtus convexa; posticæ flavescente-cinereæ, latæ, mari apud angulum interiorem extensæ, margine exteriore inciso, lineis duabus nigris costam non attingentibus, 1a brevi, 2a longa sinuata, fascia exteriore contigua lata fulva extus vaga, punctis tribus marginalibus oblongis argenteo nigroque supra marginatis.

Oligostigma gibbosalis, *Guen. Delt. et Pyral.* 262, 249.

Hindostan.

5. Oligostigma Chrysippusalis.

Mas. *Alba; antennæ moniliformes; alæ vittis duabus ochraceis fusco marginatis, linea interiore lineaque submarginali fuscis, linea marginali ochracea fusco extus marginata, fimbria alba basi nigricante; anticæ vittis duabus extus arcuatis costam attingentibus, reniformi e gutta atra.*

Male. White, in structure like *O. obitalis.* Antennæ moniliform. Abdomen extending far beyond the hind wings. Wings with two ochraceous brown-bordered stripes, and with an interior brown line; submarginal line brown; marginal line ochraceous, with a dark brown outer border; fringe white, blackish at the base. Fore wings speckled with brown towards the base of the costa; the two stripes curved exteriorly and joining the costa; reniform mark forming a deep black dot. Length of the body 3 lines; of the wings 7 lines.

This species is very nearly allied to *O. obitalis*, and a close inspection is required to distinguish them. The lines are more clearly defined, and the spaces between them are not speckled with brown; the marginal line is narrower.

a, *b*. China. Presented by G. T. Laye, Esq.
c. ——— ?

6. Oligostigma obitalis.

Mas et fœm. *Alba; palpi subarcuati, subascendentes, articulo 3o longi-conico acuto; thorax nigro trifasciatus; abdomen cervino aut fusco fasciatum, alas posticas dimidio superans; alæ vittis duabus ochraceis nigricante marginatis, linea marginali nigra; anticæ ex parte nigro conspersæ, costa cervina, vittis duabus flexis costam attingentibus, linea marginali ochracea nigro extus marginata.*

Male and female. White. Palpi slightly curved and ascending; third joint elongate-conical, acute. Thorax with three black bands. Abdomen with fawn-coloured or brown bands, extending for half its length beyond the hind wings. Wings with two ochraceous blackish-bordered stripes, and with an interior blackish marginal line; fringe brownish. Fore wings partly speckled with black; costa fawn-colour; the two stripes curved exteriorly and joining the costa; marginal line ochraceous, bordered with black on the outer side. Length of the body 3—4 lines; of the wings 6—8 lines.

a—f. Ceylon. From Mr. Stevens' collection.
g. Australia.
h, i. ———? From Mr. Milne's collection.

7. OLIGOSTIGMA VOTALIS.

Fœm. *Pallide cinerea, fusco conspersa; thorax fusco fasciatus; alæ lineis quinque variis fuscis albido marginatis extus arcuatis et costam attingentibus, fimbria albida fusco interlineata; anticæ linea 1a bis dilatata, margine exteriore perobliquo.*

Female. Pale cinereous, speckled with brown, like *O. obitalis* in structure. Thorax with brown bands. Abdomen extending a little beyond the hind wings. Wings with five various brown whitish-bordered lines, which are hardly oblique, except exteriorly, where they are curved towards and join the costa; fringe whitish, interlined with brown. Fore wings with the first line somewhat dilated in two places, and thus indicating the orbicular and reniform marks; exterior border extremely oblique. Length of the body 3½ lines; of the wings 7 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b—d. Ceylon. From Mr. Stevens's collection.

Australasia.

8. OLIGOSTIGMA CRASSICORNALIS.

Mas. *Alba; antennæ crassæ, velutinæ; tibiæ anticæ subincrassatæ, fuscescentes; tarsi antici longissimi, corpore non breviores; alæ fascia marginali crocea nigro marginata; anticæ fascia interiore fasciaque submarginali postice connexis,*

supra concava subtus convexa; posticæ flavescente-cinereæ, latæ, mari apud angulum interiorem extensæ, margine exteriore inciso, lineis duabus nigris costam non attingentibus, 1a brevi, 2a longa sinuata, fascia exteriore contigua lata fulva extus vaga, punctis tribus marginalibus oblongis argenteo nigroque supra marginatis.

Oligostigma gibbosalis, *Guen. Delt. et Pyral.* 262, 249.
Hindostan.

5. Oligostigma Chrysippusalis.

Mas. *Alba; antennæ moniliformes; alæ vittis duabus ochraceis fusco marginatis, linea interiore lineaque submarginali fuscis, linea marginali ochracea fusco extus marginata, fimbria alba basi nigricante; anticæ vittis duabus extus arcualis costam attingentibus, reniformi e gutta atra.*

Male. White, in structure like *O. obitalis.* Antennæ moniliform. Abdomen extending far beyond the hind wings. Wings with two ochraceous brown-bordered stripes, and with an interior brown line; submarginal line brown; marginal line ochraceous, with a dark brown outer border; fringe white, blackish at the base. Fore wings speckled with brown towards the base of the costa; the two stripes curved exteriorly and joining the costa; reniform mark forming a deep black dot. Length of the body 3 lines; of the wings 7 lines.

This species is very nearly allied to *O. obitalis*, and a close inspection is required to distinguish them. The lines are more clearly defined, and the spaces between them are not speckled with brown; the marginal line is narrower.

a, b. China. Presented by G. T. Laye, Esq.
c. ——— ?

6. Oligostigma obitalis.

Mas et fœm. *Alba; palpi subarcuati, subascendentes, articulo 3o longi-conico acuto; thorax nigro trifasciatus; abdomen cervino aut fusco fasciatum, alas posticas dimidio superans; alæ vittis duabus ochraceis nigricante marginatis, linea marginali nigra; anticæ ex parte nigro conspersæ, costa cervina, vittis duabus flexis costam attingentibus, linea marginali ochracea nigro extus marginata.*

Male and female. White. Palpi slightly curved and ascending; third joint elongate-conical, acute. Thorax with three black bands. Abdomen with fawn-coloured or brown bands, extending for half its length beyond the hind wings. Wings with two ochraceous blackish-bordered stripes, and with an interior blackish marginal line; fringe brownish. Fore wings partly speckled with black; costa fawn-colour; the two stripes curved exteriorly and joining the costa; marginal line ochraceous, bordered with black on the outer side. Length of the body 3—4 lines; of the wings 6—8 lines.

a—f. Ceylon. From Mr. Stevens' collection.
g. Australia.
h, i. ———? From Mr. Milne's collection.

7. Oligostigma votalis.

Fœm. *Pallide cinerea, fusco conspersa; thorax fusco fasciatus; alæ lineis quinque variis fuscis albido marginatis extus arcuatis et costam attingentibus, fimbria albida fusco interlineata; anticæ linea 1a bis dilatata, margine exteriore perobliquo.*

Female. Pale cinereous, speckled with brown, like *O. obitalis* in structure. Thorax with brown bands. Abdomen extending a little beyond the hind wings. Wings with five various brown whitish-bordered lines, which are hardly oblique, except exteriorly, where they are curved towards and join the costa; fringe whitish, interlined with brown. Fore wings with the first line somewhat dilated in two places, and thus indicating the orbicular and reniform marks; exterior border extremely oblique. Length of the body 3½ lines; of the wings 7 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b—d. Ceylon. From Mr. Stevens's collection.

Australasia.

8. Oligostigma crassicornalis.

Mas. *Alba; antennæ crassæ, velutinæ; tibiæ anticæ subincrassatæ, fuscescentes; tarsi antici longissimi, corpore non breviores; alæ fascia marginali crocea nigro marginata; anticæ fascia interiore fasciaque submarginali postice connexis,*

margine interiore pallide crocea-flava, plica apud costæ medium squamis fimbriata; posticæ breves, fascia transversa flava postice fusca, punctis duobus marginalibus nigris albo pupillatis, margine exteriore sat inciso.

Oligostigma crassicornalis, *Guen. Delt. et Pyral.* 261, 246.
Java.

9. Oligostigma Javanalis.

O. crassicornali *simillima, major; alæ anticæ plica nulla costali; anticæ fascia exteriore latiore; posticæ apud angulum interiorem extensæ, inter angulum interiorem et incisuram obliquæ.*

Oligostigma Javanalis, *Guen. Delt. et Pyral.* 262, 247.
Java.

10. Oligostigma? Iriusalis.

Alba; antennæ pubescentes; thorax fusco quadrivittatus; pedes sat robusti; tibiæ posticæ fasciculo apicali nigro truncato; alæ luteæ; anticæ disco basali costaque albis nigro bilineatis, fascia exteriore alba semihyalina valde interrupta fusco submarginata, spatio adhuc exteriore fusco fascias duas obliquas albas semihyalinas postice abbreviatas includente; posticæ lineis duabus incompletis fuscis, 1a discali perobliqua postice nigro notata, 2a submarginali, striga apud angulum interiorem alba, margine exteriore albido guttis nigris.

White. Palpi erect, not rising above the vectex; third joint lanceolate, much shorter than the second. Antennæ pubescent. Thorax with four brown stripes. Legs rather stout; hind tibiæ with a black apical truncated tuft. Wings luteous. Fore wings with the costa and basal part of the disk white, containing two black lines; an exterior much interrupted partly brown-bordered white semihyaline band, between which and the whitish exterior border the space is brown, and contains two oblique white semihyaline bands, which are abbreviated hindward. Hind wings with two incomplete brown lines, one discal, very oblique, marked with black and accompanied by a white streak near the interior angle; the other submarginal and parallel to the exterior border, which is whitish and adorned with black dots. Length of the body 3½? lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

11. Oligostigma? Villidalis.

Fœm. *Alba; palpi longiusculi; articulus 2us arcuatus, supra fuscus; 3us lanceolatus, 2o brevior; alæ lineis submarginali et marginali luteis, hac intus nigro marginata; anticæ vitta lutea extus rectangulata, linea submarginali extus fusco marginata, reniformi e striga nigricante; posticæ linea interiore fusca perobliqua, linea submarginali fusco marginata, guttis marginalibus nigris albo marginatis.*

Female. White. Palpi rather long; second joint curved, brown above; third lanceolate, rather shorter and more slender than the second. Maxillary palpi distinct, much shorter than the labial. Antennæ submoniliform. Abdomen extending a little beyond the hind wings. Wings with the submarginal and marginal lines luteous, the latter bordered with black on the inner side. Fore wings with a luteous stripe, which forms a right angle exteriorly and extends to the costa; submarginal band bordered with brown on the outer side; reniform mark indicated by a black streak. Hind wings with a brown interior very oblique line; submarginal line bordered with brown on both sides; exterior border with black white-bordered dots. Length of the body 3 lines; of the wings 7 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 5. CATACLYSTA.

Corpus gracile. Proboscis brevis. Ocelli obsoleti. Palpi graciles, arcuati, ascendentes; articulus 3us filiformis, acutus 2i dimidio non brevior. Palpi maxillares plus minusve conspicui; articuli indistincti. Antennæ squamosæ, sæpe moniliformes aut subdenticulatæ. Abdomen alas posticas superans. Pedes glabri, longiusculi, calcaribus longissimis. Alæ acutæ, longiusculæ, sat angustæ, margine exteriore perobliquo; posticæ ocellis marginalibus atris purpureo aut aureo aut argenteo marginatis.

Cataclysta, *Hübn. Verz. Schm.* 263; *Steph.; Herr.-Schæff.; Guen. Delt. et Pyral.* 263.

Body slender. Proboscis short. Ocelli obsolete. Palpi slender, curved, ascending; third joint filiform, acute, full half the length of the second. Maxillary palpi more or less visible; joints indistinct. Antennæ squamous and shining above, often monili-

form or minutely denticulated. Abdomen extending beyond the hind wings. Legs bare, rather long, moderately stout; spurs very long. Wings acute, rather long and narrow; exterior border very oblique. Hind wings with a marginal band composed of black ocelli with brilliant borders.

Europe.

1. CATACLYSTA LEMNALIS.

Alba; alæ margine exteriore fuscescente; posticæ puncto discali nigro, plaga posteriore fusca; fascia marginali atra argenteo punctata. Fœm.—*Alæ anticæ fuscescente conspurcatæ.*

———— ————, *Rai, Ins.* 205, 102. *Réaum. Ins.* ii. 402, pl. 32, f. 13—17. *Schæff. Icon.* 230, f. 6.

Phalæna-Geometra lemnata, *Linn. Syst. Nat.* i. 2, 874, 278; *Faun. Suec.* 1301. *Gmel. ed. Syst. Nat.* i. 5, 2486, 278.

Phalæna lemnata, *Fabr. Sp. Ins.* ii. 269, 162; *Mant. Ins.* ii. 215, 251; *Ent. Syst.* iii. 2, 215, 319. *Mull. Zool. Dan. Prodr.* 128, 1842. *Donov. Engl. Ins.* vii. pl. 266, f. 1, 2.

Phalæna uliginata, *Fabr. Ent. Syst.* iii. 2, 214, 317.

Phalæna moniliata, *Schæff. Icon.* ii. pl. 119, f. 7, 8.

Phalæna gemmata, *Berl. Mag.* iv. 6, 614, 88.

Pyralis lemnalis, *Wien. Verz.* 123, 30. *Ill. Ausg.* ii. 24, 30; *Mag.* iv. 7, 30. *Hübn. Pyral.* pl. 13, f. 83, 84. *Haw. Lep. Brit.* 384.

Nymphula lemnalis, *Treit. Schm.* vii. 134, 7. *Schr. Fn. Boic.* ii. 2, 61, 1711.

Hydrocampa lemnalis, *Dup. Lép.* viii. 2, 179, pl. 222, f. 4, 5.

Cataclysta lemnalis, *Hübn. Verz. Schm.* 263, 3468. *Herr.-Schæff. Eur. Schm.* iv. 7, 1. *Guen. Delt. et Pyral.* 267, 257.

a—l. England. From Mr. Stephens' collection.

m—o. England.

p, q. Europe. From M. Becker's collection.

North America.

2. CATACLYSTA LAMIALIS.

Mas. *Albida; abdomen fusco subconspersum; alæ lineis interiore et exteriore fuscis obliquis; anticæ basi fuscæ, linea exteriore valde angulosa strigas extus emittente, lineis duabus adhuc exterioribus fuscis postice approximatis, striga postica*

chalybea, margine exteriore fusco, reniforme ochracea; posticæ extus fusco conspersæ, margine exteriore pallide ochraceo, maculis quinque marginalibus atris purpureo punctatis.

Male. Whitish. Palpi of the typical structure. Abdomen slightly speckled with brown; apical tuft white, rather long. Wings with the interior and exterior lines brown, oblique. Fore wings brown at the base and along the basal part of the costa; exterior line extremely zigzag, emitting two or three streaks towards the exterior border; two more exterior brown lines converging from the costa towards the exterior border, on approaching which there is a slight ochraceous tinge between them; exterior border brown, with a chalybeous tinge on the hind part of the white space between it and the second of the lines above mentioned; reniform mark indicated by a dull ochraceous spot. Hind wings exteriorly with dark brown speckles; exterior border pale ochraceous, with five deep black purple-pointed spots. Length of the body 4 lines; of the wings 9 lines.

a. United States. Presented by E. Doubleday, Esq.

3. Cataclysta Claudialis.

Mas. *Ochracea; antennæ submoniliformes; thoracis latera antica alba; alæ anticæ lituris septem variis albis fusco marginatis; posticæ albæ, lineis ochraceis postice connexis, ocellis quatuor marginalibus atris purpureo punctatis.*

Male. Ochraceous, slender, pale beneath. Palpi slender, obliquely ascending; second joint curved; third lanceolate, more slender and a little shorter than the second. Antennæ submoniliform. Thorax white on each side in front. Abdomen whitish. Fore wings with seven white marks of various size and shape, irregularly bordered with brown; first and second larger than the others; third and fourth lanceolate, transverse; three intermediate smaller marks. Hind wings white; middle part with some ochraceous lines, which are connected hindward; four deep black purple-pointed marginal ocelli. Length of the body 2½ lines; of the wings 5 lines.

a, *b*. United States. Presented by E. Doubleday, Esq.

4. CATACLYSTA? JULIANALIS.

Mas. *Albida, ferrugineo subnotata ; palporum articulus 2us subtus pilosus ; palpi maxillares distincti ; antennæ robustæ, submoniliformes ; pedes validi, tibiis anticis subtus fasciculatis ; alæ anticæ fasciis duabus rufescentibus, spatio intermedio nigricante consperso ; posticæ apud marginem interiorem nigro conspersæ, fascia marginali rufescente, punctis marginalibus nigris.*

Male. Whitish, slightly marked with ferruginous. Second joint of the palpi pilose beneath ; third wanting. Maxillary palpi distinct. Antennæ stout, submoniliform. Abdomen with brownish speckles, extending a little beyond the hind wings. Legs stout; fore tibiæ tufted beneath. Fore wings with two reddish bands ; the first exterior ; the second marginal ; the intermediate part with blackish speckles, which are somewhat confluent by the bands. Hind wings with a cluster of black speckles, extending from the middle of the interior border to the disk ; marginal band reddish, obsolete towards the tips of the wings ; a few black marginal joints. Length of the body 3½ lines ; of the wings 8 lines.

a. United States. Presented by E. Doubleday, Esq.

West Indies.

5. CATACLYSTA ? PEGASALIS.

Fœm. *Ferruginea ; palpi strenui, oblique ascendentes ; articulus 3us 2i triente non longior ; antennæ robustæ ; abdomen alas posticas sat superans ; alæ anticæ fascia obliqua cinerea albido marginata extus costam versus dilatata et angulata maculamque fuscam albido marginatam includente, margine exteriore postico cupreo punctis nigris ; posticæ cinereæ nigro conspersæ, margine exteriore cupreo guttis nigris.*

Female. Ferruginous, cinereous beneath. Palpi stout, obliquely ascending ; third joint elongate-conical, not more than one-third of the length of the second. Antennæ stout. Abdomen extending rather beyond the hind wings. Fore wings with an oblique cinereous band, which has a whitish border, and is dilated and angular on the outer side in front, where it contains a brown whitish-bordered spot ; exterior border narrowly cupreous and black-pointed hindward. Hind wings cinereous, with black flecks,

except in front; exterior border bright cupreous, with black dots. Length of the body 4 lines; of the wings 9 lines.

Jamaica. In Mr. Saunders' collection.

South America.

A. Alæ ochraceæ.
  A. Thorax non fasciatus nec vittatus.
    a. Alæ fasciis nullis semihyalinis. - - pyropalis, *Guen.*
    b. Alæ fasciis semihyalinis. - - - Thetysalis, *Walk.*
  B. Thorax fasciatus. - - - - - Ilialis, *Walk.*
  C. Thorax vittatus. - - - - - Calistoalis, *Walk.*
B. Alæ albæ.
  A. Alæ posticæ ocellis tribus. - - - inauralis, *Cram.*
  B. Alæ posticæ ocellis sex. - - - annulalis, *Guen.*
  C. Alæ posticæ ocellis quatuor.
    a. Alæ anticæ striga plumbea. - - - catenalis, *Guen.*
    b. Alæ anticæ striga nulla plumbea. - Pantheralis, *Walk.*
D. Alæ posticæ ocellis nullis. - - - - Phædralis, *Walk.*

6. Cataclysta inauralis.

Alba; alæ cyaneo lineatæ; anticæ luteo quadrifasciatæ; posticæ luteæ, basi albæ flavo unilineatæ, ocellis tribus marginalibus nigris.

Phalæna inaurata, *Cram. Pap. Exot.* iv. 135, pl. 359, f. G.
Cataclysta inauralis, *Hübn. Verz. Schm.* 363, 3470. *Guen. Delt. et Pyral.* 265, 252.

Surinam.

7. Cataclysta pyropalis.

Fœm. *Ochraceo-flava; alæ anticæ lineis duabus albidis rectis indistinctis, 1a exteriore erecta, 2a subapicali apud areolam abbreviata, areola albo nebulosa fusco conspersa lunulam parvam obliquam pallidiorem marginatam includente, macula alba breviore posteriore fusco conspersa, linea submarginali magis decisa apud costam alba postice plumbea micante angulum versus interiorem abbreviata, striga contigua obliqua plumbea; posticæ macula discali metallica, spatio marginali*

nigro punctis quatuor urgenteo et violaceo micantibus ornato, margine interiore pallide cinereo, atomis apud angulum interiorem metallicis.

Cataclysta pyropalis, *Guen. Delt. et Pyral.* 265, 253.

Brazil.

8. CATACLYSTA ANNULALIS.

Fuscescens, subtus alba; tibiæ nigro fasciatæ; alæ albæ, basi fuscescentes linea alba, costa fusca albido triguttata, lineis duabus fuscis; anticæ linea 2a angulata, spatio exteriore fusco lineas duas fuscas postice subconnexas lineamque luteam valde flexam includente; posticæ linea 2a plagam testaceo conspersam et binotatam fingente, ocellis sex marginalibus atris aurato-purpureo et antice testaceo marginatis.

Cataclysta annulalis, *Guen. Delt. et Pyral.* 266, 254.

Brazil.

a. Venezuela. From Mr. Dyson's collection.
b. Honduras. From Mr. Dyson's collection.

9. CATACLYSTA CATENALIS.

Fœm. *Alba; antennæ graciles, submoniliformes; alæ anticæ apice acutæ, cinereo notatæ, margine exteriore recto, fascia marginali croceo-flava nigricante lineata apicem et angulum interiorem non attingente, litura apud angulum interiorem flava e striga plumbea divisa, macula magna cervina subapicali, costa basi lituraque media fuscis; posticæ lineolis nonnullis indistinctis pallide flavescente fuscis, margine nigro, ocellis quatuor aureo et iridescente pupillatis.*

Cataclysta catenalis, *Guen. Delt. et Pyral.* 267, 255.

Brazil.

10. CATACLYSTA THETYSALIS.

Fœm. *Ochracea, sat robusta; palpi validi, suberecti; articulus 3us conicus, 2i dimidio brevior; antennæ squamosæ, sat validæ; abdomen albidum; pedes antici nigricante fasciati; alæ nigricante conspersæ; anticæ fasciis duabus semihyalinis opalinis obliquis extus abbreviatis, plaga costali lutea, lineis duabus submarginalibus pallide auratis; posticæ dimidio basali semihyalino, plaga interiore trigona ochracea plumis nigris hirsuta, strigis marginalibus atris aureo punctatis.*

Female. Ochraceous, rather stout, pale yellowish beneath. Palpi stout, nearly vertical; third joint conical, less than half the length of the second. Antennæ squamous, rather stout. Abdomen whitish. Fore tibiæ and fore tarsi with blackish bands. Wings with blackish speckles. Fore wings with two semihyaline opaline oblique irregular bands, which join the interior border, but are abbreviated exteriorly where the second joins a luteous patch, which extends from the costa to the disk; two submarginal pale gilded lines, which near the interior angle are contiguous to two oblique pale gilded streaks; marginal line luteous, with a black exterior border. Hind wings white and semihyaline on more than half the basal space, which contains a triangular ochraceous patch, the latter furnished with plumose black hairs; a slight exterior undulating brownish line; ten little deep black gold-spangled marginal streaks. Length of the body 4 lines; of the wings 10 lines.

a. Villa Nova. From Mr. Bates' collection.

11. Cataclysta Ilialis.

Fœm. *Ochracea, subtus alba; antennæ submoniliformes, corpore non breviores; thorax antice albus, fusco bifasciatus; abdomen albo fasciatum; alæ lineis quatuor albis nigro marginatis, linea marginali nigra, fimbria alba; anticæ lineis 2a 3aque valde angulosis, lineolis duabus exterioribus disco connexis, reniformi nigra angusta valde obliqua; posticæ guttis duabus marginalibus nigris albo punctatis, margine exteriore apicem versus inciso.*

Female. Ochraceous, white beneath. Palpi white, of the typical form. Antennæ submoniliform, as long as the body. Fore part of the thorax white, with two brown bands. Abdomen with white bands. Wings with four white black-bordered lines; marginal line black; fringe white. Fore wings with the second and third lines forming each a very acute angle; two white black-bordered half lines proceeding from the costa and united in the disk between the third and fourth lines; reniform mark black, narrow, very oblique, attenuated hindward. Hind wings with two black white-pointed marginal dots; exterior border with a deep notch near the tip. Length of the body 3½ lines; of the wings 10 lines.

a. Pará. Presented by Gordon Graham, Esq.

12. Cataclysta Calistoalis.

Fœm. *Ochracea; palpi arcuati, erecti, sat validi; articulus* 1*us apice latus;* 3*us lanceolatus,* 2*o brevior; antennæ crassæ, incurvæ; thorax albido vittatus; abdomen albido fasciatum; pedes robusti, tibiis tarsisque anticis nigro punctatis; alæ punctis marginalibus nigris; anticæ squamis nigris strigatæ, lineis duabus saturate ochraceis, linea interiore strigis exterioribus lineaque submarginali argenteis; posticæ costa margineque interiore latissime albo hyalinis, plumis discalibus nigris, linea saturate ochracea lineaque argentea connexis, linea submarginali argentea postice aurea.*

Female. Bright ochraceous, pale beneath. Head testaceous about the eyes. Palpi curved, vertical, moderately stout; first joint triangular, broad at the tip; third lanceolate, shorter than the second. Antennæ thick, prismatic, somewhat convoluted. Thorax with whitish stripes. Abdomen not extending beyond the hind wings; hind borders of the segments whitish. Legs rather stout; fore tibiæ and fore tarsi with black points. Fore wings with black speckles, which form streaks near the base and in the exterior part; two deep ochraceous parallel and nearly upright lines, the interior one with a silvery line on its inner side; one silvery streak between the two lines, and four between the exterior line and the silvery submarginal line, which has a dusky interior border; exterior border dusky, with transverse black points. Hind wings broadly white and hyaline along the costa and along the interior border; a tuft of long plumose black hairs on the interior disk; a deep ochraceous middle line, bordered on its outer side by a silvery line; a silvery submarginal line with elongated black points, changing hindward to a gilded line with round black points. Length of the body 3 lines; of the wings 8 lines.

a. Santarem. From Mr. Bates' collection.

13. Cataclysta Pantheralis.

Fœm. *Albida; palpi graciles, arcuati, erecti, breviusculi; articulus* 3*us lanceolatus,* 2*i dimidio non longior; abdomen alas posticas perpaullo superans; alæ anticæ costæ dimidio basali, strigisque duabus obliquis fuscescentibus, fascia submarginali lanceolata pallide lutea extus fusco marginata, vitta postica arcuata pallidissime lutea; posticæ fasciis duabus undulatis pallide luteis vix fuscescente marginatis, squamis exterioribus nigris, margine atro annulos quatuor purpureos micantes includente.*

Female. Whitish. Palpi curved, slender, vertical, rather short; third joint lanceolate, about half the length of the second. Antennæ simple. Abdomen extending very little beyond the hind wings. Fore wings brownish along the costa from the base nearly to the middle, beyond which there are two oblique brownish streaks extending outward from the costa to the disk, where the exterior one becomes luteous; a submarginal lanceolate pale luteous band, which is bordered with brown on the outer side, and is connected hindward with a paler luteous curved stripe; a marginal black-bordered pale luteous band. Hind wings with two undulating hardly brown-bordered pale luteous bands; some exterior black flecks; exterior border deep black, with four brilliant purple ringlets. Length of the body 3 lines; of the wings 8 lines.

Brazil. In Mr. Saunders' collection.

14. Cataclysta Phœdralis.

Fœm. *Alba; caput et thorax anticus pallide lutea; palpi breviusculi, sat graciles, oblique ascendentes; articulus 3us lanceolatus, gracillimus, 2i dimidio longior; abdomen alas posticas perpaullo superans; alæ anticæ costa, strigis duabus postice approximatis fasciaque submarginali fuscescentibus, vitta postica subarcuata fasciaque marginali pallide luteis; posticæ lineola discali fusca, fascia marginali pallide lutea aurato lineata nigro punctata.*

Female. White. Head and fore part of the thorax pale luteous. Palpi rather short and slender, obliquely ascending; third joint lanceolate, very slender, more than half the length of the second. Antennæ slender, simple. Abdomen extending very little beyond the hind wings. Fore wings brownish along the costa, from whence beyond the middle two brownish streaks converge to the disk; a brownish submarginal band, joining hindward the end of a slightly curved luteous stripe which is near the interior border; a pale luteous marginal band, with a brown line along each side. Hind wings with a short brown longitudinal line in the disk; exterior border pale luteous, with a pale gilded line and with black points. Length of the body 3 lines; of the wings 8 lines.

Brazil. In Mr. Saunders' collection.

Africa.

15. Cataclysta Irisalis.

Mas. *Nigricans, subtus albido-cinerea; palpi compressi, squamosi; abdomen pallide ochraceum, nigro fasciatum; alæ fasciis duabus cinereis flexis obliquis diffusis, linea submarginali chalybeo-alba, linea marginali ochracea, fimbria cinerea, nigro interlineata; anticæ litura costali subapicali albida, reniformi e lunula nigra; posticæ guttis marginalibus atris, macula apud marginem interiorem ochracea.*

Male. Blackish, whitish cinereous beneath. Proboscis stout. Palpi compressed, squamous, obliquely ascending, slightly curved; third joint lanceolate, more slender and a little shorter than the second. Antennæ rather stout. Abdomen pale ochraceous, with black bands, extending beyond the hind wings. Wings with two bent diffuse oblique cinereous bands; submarginal line chalybeous-white, white and dilated by the interior angle; marginal line ochraceous; fringe cinereous, interlined with black. Fore wings with a whitish costal mark near the tip; reniform mark indicated by a black lunule. Hind wings with black marginal dots, and with an ochraceous spot on the middle of the interior border. Length of the body 3½ lines; of the wings 8 lines.

a. Sierra Leone. From Mr. Foxcroft's collection.

16. Cataclysta Iphitalis.

Ochracea; proboscis obsoleta (?); palpi longi, recti, subpubescentes, oblique ascendentes; articulus 3us lanceolatus, 2i dimidio longior; antennæ robustæ, submoniliformes, subcompressæ; alæ squamosæ, lineis interiore et exteriore nigris diffusis, hac flexuosa; anticæ apice rotundatæ, spatio medio lineaque submarginali cinereis fusco conspersis, punctis duobus marginalibus posticis anreo notatis; posticæ cinereæ, fusco conspersæ, guttis marginalibus nigris purpurascente-aureo marginatis.

Dull ochraceous, whitish beneath. Proboscis obsolete? Palpi long, straight, obliquely ascending, finely pubescent; third joint lanceolate, more than half the length of the second. Maxillary palpi filiform, very distinct, obliquely ascending, less than half the length of the second. Antennæ stout, submoniliform, slightly compressed. Wings roughly squamous, with the interior and exterior lines of contiguous black speckles, the latter much bent. Fore wings

rounded at the tips, with the middle part and a submarginal line cinereous, speckled wth brown; exterior border with two black gold-marked points bindward. Hind wings cinereous-brown, speckled with about eight black purplish gold-bordered marginal dots. Length of the body 4 lines; of the wings 10 lines.

a. South Africa. From Mr. Argent's collection.

Mauritius.

17. CATACLYSTA COLORALIS.

Mas. *Læte crocea; abdomen flavum; alæ anticæ costa pallidiore, lineis tribus incompletis nigricantibus, 1a interiore albo late marginata, 2a tenui costam versus angulata albo extus marginata maculaque magna nigricante apud marginem interiorem connexis, 3a apud arealam dilatata et abbreviata, fascia submarginali opalino alba nigro lineata postice abbreviata, macula posteriore ovali obliqua plumbea, fimbria nigricante apud medium albida; posticæ flavæ, nigricante conspersæ, maculis quatuor marginalibus nigris supra albo marginatis, cyaneo-argenteo divisis.*

Cataclysta coloralis, *Guen. Delt. et Pyral.* 265, 251.

Mauritius.

Asia.

A. Alæ posticæ margine exteriore micante.
  A. Alæ fusco non conspersæ.
    A. Statura parva. - - - - dilucidalis, *Boisd.*
    B. Statura sat magna.
      a. Alæ anticæ striga exteriore undulata. Peribocalis, *Walk.*
      b. Alæ anticæ striga exteriore recta. - Halialis, *Walk.*
  B. Alæ fusco conspersæ. - - - blandialis, *Walk.*
B. Alæ posticæ margine non micante.
  A. Alæ posticæ roseo non fasciatæ.
    A. Alæ chalybeo non lineatæ. - - magnificalis, *Hübn.*
    B. Alæ chalybeo lineatæ. - - - elutalis, *Walk.*
  B. Alæ posticæ roseo fasciatæ. - - - bisectalis, *Walk.*

18. Cataclysta dilucidalis.

Aurato-alba; alæ nigricante conspersæ; alæ anticæ fasciis quatuor luteis, 1a basali, 2a interiore, 3a 4aque strigas duas fuscas includentibus apud angulum interiorem connexis; posticæ fascia interiore margineque exteriore luteis, ocellis quatuor marginalibus nigro-fuscis purpureo-signatis.

Botys dilucidalis, *Boisd.. Guér. Regn. Anim. Icon. Ins.* pl. 90, f. 7.

Cataclysta dilucidalis, *Guen. Delt. et Pyral.* 264, 250.

a. Ceylon. Presented by R. Templeton, Esq.

19. Cataclysta? magnificalis.

Alba; alæ rotundatæ, lineis duabus fuscis undatis, 1a obliqua, 2a valde sinuata, fimbria fusca; anticæ striga costali fusca; posticæ atomis discalibus nigricantibus, punctis sex marginalibus nigris non pupillatis.

Pyralis magnificalis, *Hübn. Pyral.* pl. 16, f. 104.

Cataclysta magnificalis, *Hübn. Verz. Schm.* 363, 3496. *Guen. Delt. et Pyral.* 267, 256.

Nymphula magnificalis, *Treit. Schm.* vii. 140, 9.

Hindostan?

20. Cataclysta Peribocalis.

Fœm. *Pallide lutea; palpi erecti; articulus 2us subtus pilosus; 3us linearis, 2i dimidio non brevior; abdomen alas posticas paullo superans; pedes longi, graciles; alæ longæ, albæ, semihyalinæ; anticæ luteo marginatæ, strigis tribus pallide luteis fusco marginatis postice approximatis, 1a perobliqua, 2a extus undulata, 3a recta, fascia marginali lutea nigro inclusa; posticæ fascia marginem versus interiorem pallide lutea, linea exteriore tenui fusca, fascia adhuc exteriore latiore obliqua pallide lutea fusco marginata maculis quatuor marginalibus atris argenteo punctatis.*

Female. Pale luteous, white beneath. Proboscis rather long. Palpi vertical; second joint with long hairs beneath; third joint linear, conical at the tip, about half the length of the second. Antennæ smooth, slender. Abdomen extending a little beyond the

the hind wings. Legs long, slender, smooth; spurs rather short. Wings long, white, semihyaline. Fore wings with pale luteous borders; interior border and three pale luteous streaks slightly lined with brown, the latter converging hindward; first streak very oblique; second undulating on the outer side; third straight, parallel to the luteous exterior border, which is slightly lined with black on both sides. Hind wings with a pale luteous band near the interior border, and having a slight brown line on its outer side; an exterior broader oblique pale luteous band, bordered with brown on both sides; exterior border with four deep black silver-pointed spots. Length of the body 4½ lines; of the wings 14 lines.

Hindostan.* In Mr. Saunders' collection.

21. CATACLYSTA HALIALIS.

Fœm. *Pallide lutea; abdomen alas posticas perpaullo superans; alæ albidæ, semihyalinæ; anticæ costa fuscescente albida notata, linea discali fuscescente, vitta posteriore subarcuata fasciisque duabus exterioribus postice connexis pallide luteis fusco marginatis, fascia marginali lutea nigro inclusa; posticæ litura basali fuscescente, fascia submarginali undulata obliqua lutea fusco marginata, margine exteriore luteo maculis quatuor atris argenteo punctatis.*

Female. Nearly allied to *C. Peribocalis.* Pale luteous, whitish beneath. Abdomen extending very little beyond the hind wings. Wings whitish, semihyaline. Fore wings brownish along the costa, with a whitish interval towards the tip; a brownish line in the disk in front of a slightly curved pale luteous brownish-bordered stripe near the interior border; two exterior pale luteous brown-bordered bands, which converge hindward and are connected by the interior angle; a brighter luteous band along the exterior border, with a black line on each side. Hind wings with a brownish mark near the base, and with an undulating oblique luteous brown-bordered band near the exterior border, which is luteous, and is adorned with four deep black silver-pointed spots. Length of the body 3½ lines; of the wings 10 lines.

China. In Mr. Saunders' collection.

22. CATACLYSTA BLANDIALIS.

Fœm. *Ochracea; antennæ squamosæ; thorax fuscescente cinereus; alæ albidæ, fusco conspersæ, basi fuscescentes, fascia cyanea fasciaque ochracea interioribus connexis, fascia exteriore cyanea postice abbreviata; anticæ extus costam versus albæ postice cyaneæ, fasciis tribus exterioribus ochraceis postice connexis, 1a furcata; posticæ ocellis quatuor marginalibus atris ochraceo divisis cyaneo punctatis.*

Female. Dull ochraceous, paler beneath. Antennæ squamous. Thorax brownish cinereous, shining. Abdomen extending rather beyond the hind wings. Wings whitish, thickly speckled with dark brown, brownish at the base, near which there is a metallic-blue band; the latter joins a bright ochraceous band; the last exteriorly being contiguous to another metallic-blue band, which is abbreviated in the hind wings. Fore wings white in front and blue hindward exteriorly, where there are three ochraceous bands; these are united hindward, and the first is forked. Hind wings with four deep black marginal ocelli, which are divided by ochraceous streaks, and contain brilliant blue points. Length of the body 2½—4 lines; of the wings 6—10 lines.

a, b. Ceylon. Presented by R. Templeton, Esq.

23. CATACLYSTA? ELUTALIS.

Mas et fœm. *Ferruginea, chalybeo conspersa; palporum articulus 3us brevis, latus, apice truncatus; antennæ robustæ, submoniliformes; alæ chalybeo fuscoque conspersæ, lineis exteriore et marginali chalybeis, illa undulata subdenticulata nigro marginata, spatio medio albido semihyalino, spatio submarginali obscure fusco, punctis marginalibus nigris; anticæ linea interiore obliqua chalybea; posticæ spatio interiore albido semihyalino.* Mas.—*Abdomen fasciculo apicali nigricante.*

Male and female. Ferruginous. Body with chalybeous scales. Third joint of the palpi short, broad and truncated at the tip. Antennæ stout, submoniliform. Wings with chalybeous and dark brown speckles, and with the exterior and marginal lines chalybeous; the former undulating, bordered with black and slightly denticulated; the space on its interior side whitish and semihyaline; the submarginal space mostly dark brown; marginal points black.

Fore wings with an interior oblique chalybeous line. Hind wings with the interior space mostly whitish and semihyaline. *Male.*—Abdomen extending far beyond the hind wings; apical tuft blackish. Length of the body 4—5 lines; of the wings 9—10 lines.

a, *b*. Ceylon. Presented by R. Templeton, Esq.
c. Ceylon. From Mr. Stevens' collection.

24. Cataclysta? bisectalis.

Alba; palpi graciles, subarcuati, oblique ascendentes; antennæ breves, validæ, setaceæ; alæ fascia media obliqua obscure fusca, lineis interiore et exteriore fuscis flexuosis, punctis marginalibus nigris; anticæ orbiculari fusca punctiformi, reniformi e punctis duobus fuscis; posticæ fascia submarginali rosea, margine exteriore fusco.

White. Palpi slender, slightly curved, obliquely ascending; third joint lanceolate, a little shorter than the second. Antennæ short, stout, setaceous. Wings with a dark brown oblique middle band, and with an interior and an exterior flexuous slight irregular brown line; marginal points black; under side brownish, white at the base and with a white middle band. Fore wings with the orbicular mark indicated by a brown point, and the reniform by two brown points. Hind wings with a few brown speckles, and with a rosy submarginal band; exterior border brown. Length of the body 3 lines; of the wings 7 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Australasia.

25. Cataclysta Crœsusalis.

Mas. *Cinereo-alba; alæ fimbria cinereo-alba fusco punctata; anticæ cinereo-fuscæ, macula discali oblonga fasciaque exteriore abbreviata albis fusca marginatis, fascia submarginali alba, fascia marginali lutea intus nigro marginata, punctis marginalibus nigris; posticæ luteæ, spatio basali albo linea nigra, fascia submarginali alba latissime interrupta nigro marginata, guttis marginalibus nigris.*

Male. Cinereous-white. Proboscis long. Palpi slender, obliquely ascending. Maxillary palpi distinct. Abdomen attenuated, extending rather far beyond the hind wings. Legs pure white. Wings with a cinereous-white brown-pointed fringe. Fore wings

cinereous-brown, with an oblong diseal brown-bordered white spot, with an exterior upright brown-bordered white band, which is abbreviated hindward, and with a submarginal white band, which is parallel to the exterior border; marginal band luteous, bordered with black on the inner side, and with black points on the outer side. Hind wings luteous, with a broadly interrupted white black-bordered submarginal band; marginal dots black; basal part white, separated from the luteous part by a black very oblique line. Length of the body 4 lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

26. Cataclysta Drusiusalis.

Mas. *Alba; palpi graciles; alæ fascia interiore obliqua pallide lutea; anticæ fusco substrigatæ, spatio marginali iridescente, fasciis exteriore submarginali et marginali pallide luteis fusco submarginatis postice connexis; posticæ vittis duabus fuscis parallelis, maculis marginalibus atris aureo-purpureo notatis.*

Male. White, very delicate. Palpi slender. Wings with an oblique interior pale luteous band. Fore wings slightly streaked with brown; marginal space with bright pearly tints; exterior, submarginal and marginal bands pale luteous, partly brown-bordered, united by the interior angle. Hind wings with two longitudinal parallel brown lines; marginal spots deep black, marked with brilliant gold-purple. Length of the body 2½ lines; of the wings 5 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Australia.

27. Cataclysta Glycerialis.

Fœm. *Alba; caput et thorax discis fuscis; palporum articulus 2us subtus pilosus; 3us brevis, gracilis; antennæ breviusculæ; alæ anticæ valde acutæ, costa fasciisque quinque obliquis ochraceis nigricante marginatis, fasciis 1a 2aque subparallelis, 3a valde flexuosa, 4a marginali; posticæ fasciis incompletis, guttis quinque marginalibus atris aureo punctatis.*

Female. White. Head and thorax brown, white along each side. Palpi obliquely ascending; second joint with rather long hairs beneath; third lanceolate, short, slender. Antennæ slender,

rather short. Abdomen extending rather beyond the hind wings. Fore wings very acute; costa ochraceous, blackish-bordered; four ochraceous blackish-bordered oblique bands; first and second bands nearly parallel; first abbreviated in front; third extremely serpentine; fourth marginal. Hind wings also with four bands, which are irregular and incomplete; the first and the third wholly brown; five deep black gold-pointed marginal ocelli. Length of the body 3 lines; of the wings 8 lines.

a. Sydney. From Mr. Diggles' collection.
b. Australia. From M. Damel's collection.

28. Cataclysta Lampetialis.

Mas. *Alba; antennæ robustæ, submoniliformes; abdomen ochraceo fasciatum, segmentis 1o 2oque fusco fasciatis; alæ fasciis variis obliquis flexis ochraceis fusco marginatis, linea submarginali argentea; posticæ guttis tribus punctisque duobus marginalibus atris.*

Male. White. Palpi nearly vertical; second joint much curved; third lanceolate, very slender, a little shorter than the second. Antennæ stout, submoniliform. Abdomen extending for nearly half its length beyond the hind wings, with an ochraceous band on the fore border of each segment; first and second segments with brown bands. Wings with ochraceous oblique bent various brown-bordered bands; submarginal line silvery. Fore wings with a silvery tinge between the middle and exterior lines. Hind wings with five deep black marginal dots; the first and the fifth much smaller than the others. Length of the body 3½ lines; of the wings 7 lines.

a. Moreton Bay. From Mr. Diggles' collection.

29. Cataclysta Polydectalis.

Mas. *Alba; palporum articulus 2us valde arcuatus, extus fuscescens; antennæ sat robustæ; abdomen fusco fasciatum; alæ anticæ lineis quatuor ochraceis fusco marginatis, exteriore valde flexa, reniformi e annulo oblongo nigro; posticæ lineis tribus ochraceis fusco marginatis, linea exteriore fusca antice furcata.*

Male. White. Palpi vertical; second joint much curved, brownish on the outer side, except towards the tip; third lanceolate, not more than one-third of the length of the second. Antennæ rather stout. Abdomen extending rather beyond the hind wings, with a brown band on the base of each segment. Wings with an ochraceous brown-marked line near the base; submarginal and marginal lines ochraceous, brown-bordered. Fore wings with an ochraceous brown-bordered exterior line, which is extremely bent, and is intersected by the submarginal line and by the reniform mark; the latter forming a black oblong ringlet. Hind wings with a brown exterior line which is forked in front; three deep black oblong points on the fringe. Length of the body 3 lines; of the wings 7 lines.

a. Moreton Bay. From Mr. Diggles' collection.

Genus 6. PARAPONYX.

Corpus sat gracile. Caput minimum. Proboscis tenuis. Palpi maxillares subarcuati, subascendentes; articulus 3us lanceolatus, rectus, 2o paullo brevior. Palpi maxillares distincti, graciles, ascendentes, aut longi, aut breves. Antennæ validæ, submoniliformes. Abdomen alas posticas superans. Pedes glabri, longi, graciles, calcaribus longis inæqualibus. Alæ apice rotundatæ; anticæ margine exteriore subconvexo subobliquo.

Nymphula, p., *Treit.; Herr.-Schæff.*
Hydrocampa, p., *Dup.*
Paraponyx, *Hübn. Verz. Schm.* 362; *Steph.; Guen. Delt. et Pyral.* 268.

Body rather slender. Head very small. Proboscis very slight. Palpi slightly curved and ascending; third joint lanceolate, straight, a little shorter than the second. Maxillary palpi distinct, slender, ascending, as long as the labial palpi, or less than half their length. Antennæ stout, submoniliform. Abdomen extending rather beyond the hind wings. Legs smooth, long, slender; spurs long, unequal. Wings moderately broad, rounded at the tips. Fore wings with the exterior border slightly convex and oblique.

Europe.

1. Paraponyx stratiotalis.

Pallide testaceo-cervina; alæ anticæ fusco conspersæ, linea exteriore obliqua, undulata albida, linea submarginali denticulata guttisque marginalibus subquadratis nigricantibus, reniformi albida nigricante marginata; posticæ albæ, venis apud marginem lineaque submarginali fuscis, fascia incompleta discali guttisque marginalibus nigro-fuscis.

———— ————, *Deg. Ins.* i. 517, pl. 37, f.; ii. 246. *Geoff. Ins.* ii. 142, 66.

Phalæna-Geometra stratiotata, *Linn. Syst. Nat.* i. 2, 873, 276; *Faun. Suec.* 1300. *Gmel. ed. Syst. Nat.* i. 5, 2486, 276.

Phalæna stratiotata, *Fabr. Sp. Ins.* ii. 269, 160; *Mant. Ins.* ii. 214, 249; *Ent. Syst.* iii. 2, 213, 314,

Phalæna-Geometra paludata, *Gmel. ed. Syst. Nat.* i. 5, 2486, 277.

Phalæna paludata, *Fabr. Ent. Syst.* iii. 2, 213, 312.

Pyralis stratiotalis, *Wien. Verz.* 123, 23. *Ill. Ausg.* ii. 22, 23; *Mag.* iv. 6, 23. *Hübn. Pyral.* pl. 13, f. 87. *Haw. Lep. Brit.* 383.

Paraponyx stratiotalis, *Hübn. Verz. Schm.* 362, 3461. *Steph. Ill. Brit. Haust.* iv. 41. *Guen. Delt. et Pyral.* 269, 258.

Nymphula stratiotalis, *Treit. Schm.* vii. 137, 8. *Herr.-Schæff. Eur. Schm.* iv. 10, 7.

Hydrocampa stratiotalis, *Dup. Lép.* viii. 2, 183, pl. 222, f. 6.

a—i. England. From Mr. Stephens' collection.
j—n. England.

North America.

2. Paraponyx Allionealis.

Mas et fœm. *Fuscescente-cervina; palporum articulus 2us arcuatus, latiusculus; 3us longi-conicus, 2i triente brevior; abdomen alas posticas sat superans; alæ longæ, angustæ, lineis obliquis obscurioribus subobsoletis, punctis marginalibus nigris.* Mas.—*Abdomen apice album; alæ lituris nonnullis nigricantibus.*

Male and female. Brownish fawn-colour. Palpi obliquely ascending; second joint curved, rather broad; third elongate-conical, not one-third of the length of the second. Abdomen extending

somewhat beyond the hind wings. Wings long, narrow; some traces of oblique darker lines; marginal points black. *Male.*—Abdomen with a white apical tuft. Wings with some slight blackish marks composed of flecks. Length of the body 3—4 lines; of the wings 7—10 lines.

a—e. United States. Presented by E. Doubleday, Esq.

3. PARAPONYX ALGIRALIS.

Statura C. lemnalis; *alæ albæ, fusco pulveratæ, puncto areolari nigro, fasciis lineisque fuscis cervino intus variegatis.*

Hydrocampa algiralis, *Guen. Explor. Scient. de l'Alger. Anim. Artic.* iii. 404, 162.

Paraponyx algiralis, *Guen. Delt. et Pyral.* 271, 261.

Algiers.

Asia.

4. PARAPONYX AFFINIALIS.

Fœm. *Alba; abdomen nigricante spurcatum; alæ oblongæ, concolores, atomis fuscis lituratæ, margine subflavescente nigro lineato, anticæ linea interiore valde arcuata, linea exteriore sinuata, annulo discali nigro rotundo, litura posteriore flavescente-fusca, linea submarginali alba, fimbria strigis transversis albis; posticæ litura discali fasciaque vaga nigricantibus, linea alba sinuata fasciam trajiciente, linea submarginali nigricante, fimbria interlineata.*

Paraponyx affinialis, *Guen. Delt. et Pyral.* 270, 259.

Hindostan.

5. PARAPONYX LINEALIS.

Alba; palpi maxillares labialibus vix breviores, articulis distinctis; abdomen fusco fasciatum; alæ fasciola marginali fulva, linea marginali fusca denticulata, lineis duabus submarginalibus parallelis, una fusca, altera alba; anticæ fasciolis duabus fulvis obliquis approximatis, interiore flexuosa, fasciola exteriore fulva ex parte obsoleta, puncto discali fusco; posticæ fasciola una discali, lineis duabus parallelis fuscis.

Paraponyx linealis, *Guen. Delt. et Pyral.* 271, 260.

Hindostan.

Genus 7. CYMORIZA.

Corpus gracile. Ocelli nulli. Proboscis brevis, conspicua. Palpi graciles, arcuati, ascendentes, remoti; articulus 3us acicularis. Palpi maxillares brevissimi, vix conspicui. Antennæ filiformes, articulis plurimis. Abdomen alas posticas paullo superans. Tibiæ posticæ calcaribus longissimis approximatis. Alæ concolores, lituris non diversis; anticæ subrectangulatæ, margine exteriore rotundato subflexo; posticæ latæ, margine exteriore valde sinuato et denticulato. *Mas.*—Antennæ robustæ. Alæ anticæ costa apud medium depressa subvesiculosa.

Cymoriza, *Guen. Delt. et Pyral.* 271.

Body slender. Ocelli obsolete. Proboscis short, but distinct. Palpi slender, curved, ascending, remote; third joint acicular. Maxillary palpi very short, hardly visible. Antennæ filiform, with many joints. Abdomen extending a little beyond the hind wings. Hind legs of moderate length; their tibiæ with approximate and very long spurs. Wings alike in colour and with like markings, which consist of the usual lines. Fore wings rectangular at the tips; exterior border rounded and slightly bent. Hind wings broad; exterior border much sinuated and denticulated. *Male.*—Antennæ robust. Fore wings with an almost vesicular depression on the middle of the costa.

1. CYMORIZA DAMESCALIS.

Fœm. *Alba; alæ margine exteriore lineisque pallide flavescente-fulvis, illo fusco-lineato; anticæ lineis quinque, exteriore et sequente parallelis approximatis postice valde sinuatis, reniformi parva cinerascente vacua vix conspicua; posticæ lineis duabus subrectis, 3a et submarginali subparallelis valde sinuatis, striga discali cinerea elongata erecta.*

Cymoriza damescalis, *Guen. Delt. et Pyral.* 272, 263.

Brazil.

2. CYMORIZA IRRECTALIS.

Mas et fœm. *Flavescente-cinerea; alæ fusco conspersæ, lineis tribus sinuatis albis nigro marginatis, interiore arcuata et sinuata et exteriore apud costam remotis postice approximatis,*

hac strigam brevem emittente, margine exteriore flavescente-fusco; anticæ puncto discali albo pupillato, margine exteriore flexo; posticæ puncto discali nigro.

Cymoriza irrectalis, *Guen. Delt. et Pyral.* 272, 262.

Hindostan?

Genus 8. HYDROCAMPA.

Corpus gracile. Ocelli distincti. Proboscis gracilis. Palpi ascendentes, breves, squamosi; articulus 3us conicus, 2i dimidio non longior. Palpi maxillares distincti. Antennæ submoniliformes, maris subpubescentes. Abdomen alas posticas superans. Pedes longi, glabri; calcaria brevia. Alæ longæ, sat angustæ; anticæ apice subrotundatæ; posticæ margine exteriore subsinuato.

Hydrocampa, *Latr. Fam. Nat.* 478; *Dup.; Steph.; Guen. Delt. et Pyral.* 273.

Nymphula, p„ *Schr.; Treit.; Herr.-Schæff.*

Body slender. Ocelli distinct, approximate to the eyes. Proboscis slender, moderately long. Palpi ascending, squamous, short, contiguous at the base, diverging towards the tips; third joint conical, not more than one half of the length of the second. Maxillary palpi distinct, extending to the second joint of the labial palpi. Antennæ submoniliform, minutely pubescent in the male. Abdomen extending beyond the hind wings. Legs long, bare; spurs short. Wings long, not broad. Fore wings slightly rounded at the tips; exterior border moderately oblique. Hind wings with the exterior border slightly sinuated.

Europe.

1. HYDROCAMPA NIVEALIS.

Nivea; alæ anticæ strigis binis fuscis, maculis tribus longitudinalibus nigris.

Pyralis nivealis, *Wien. Verz.* 316, 12. *Ill. Ausg.* ii. 16, 12. *Hübn. Pyral.* pl. 21, f. 141.

Paraponyx nivealis, *Hübn. Verz. Schm.* 362, 3460.

Nymphula nivealis, *Treit. Schm.* vii. 133, 6. *Herr.-Schæff. Eur. Schm.* iv. 11, 8. *Eversm. faun. Volg.-Ural.* 463.

Phalæna candidata, *Fabr. Mant. Ins.* ii. 215, 253; *Ent. Syst.* iii. 2, 215, 321.

Phalæna-Geometra candidata, *Gmel. ed. Syst. Nat.* i. 5, 2486, 774.
Hydrocampa nivealis, *Guen. Delt. et Pyral.* 275, 266.

Austria. Hungary. South Russia.

2. HYDROCAMPA RIVULALIS.

Alba; alæ lineis duabus nigris, 2a valde flexuosa, linea submarginali margineque exteriore flavescentibus, punctis marginalibus nigris, reniformi annuliformi.

Hydrocampa rivulalis, *Dup. Lép.* viii. 2, 341, pl. 233, f. 5. *Guen. Delt. et Pyral.* 275, 267.
Nymphula rivulalis, *Herr.-Schæff. Eur. Schm.* iv. 11, 10.

South France. Corsica.

3. HYDROCAMPA NYMPHÆALIS.

Alba, fusco varia; alæ fasciis duabus angulosis lineisque duabus undulatis fuscis, linea marginali lutea fusco marginata; anticæ orbiculari et reniformi luteis; posticæ macula oblonga discali fusca luteo bipunctata.

——— ———, *Réaum. Ins.* ii. 391, pl. 32. *Schæff. Icon.* ii. pl. 118, f. 5, 6. *Rai, Ins.* 227, 87.
Phalæna-Geometra nymphæata, *Linn. Syst. Nat.* i. 2, 873, 274; *Faun. Suec.* 1298. *Gmel. ed. Syst. Nat.* i. 5. 2485, 274.
Phalæna nymphæata, *Fabr Sp. Ins.* ii. 269, 161; *Mant. Ins.* ii. 215, 250; *Ent. Syst.* iii. 2, 214, 316. *Mull. Ins. Fridr.* 51, 450; *Zool. Dan. Prodr.* 128, 1480.
Phalæna-Geometra potamogata, *Linn. Syst. Nat.* i. 2, 873, 275; *Faun. Suec.* 1299. *Gmel. ed. Syst. Nat.* i. 5, 2485, 275. *Donov. Engl. Ins.* xi. 9, pl. 363, f. 1.
Pyralis potamogalis, *Haw. Lep. Brit.* 382.
Nymphula potamogalis, *Treit. Schm.* vii. 143, 11. *Herr.-Schæff. Eur. Schm.* iv. 11, 9.
Hydrocampa potamogalis, *Dup. Lép.* viii. 2, 172, pl. 222, f. 1, 2.
Pyralis nymphæalis, *Wien. Verz.* 121, 13. *Schr. Faun. Boic.* ii. 2, 263, 715. *Hübn. Pyral.* pl. 13, f. 85.
Nausinöe Nymphæalis, *Hübn. Verz. Schm.* 363, 3467.
Hydrocampa nymphæalis, *Guen. Delt. et Pyral.* 275, 268.
Hydrocampa Potamogeta, *Steph. Ill. Brit. Haust.* iv. 38, 1.

a—j. England. From Mr. Stephens' collection.
k—o. England.
p—s. Europe. From M. Becker's collection.
t. Germany. From M. Hemingboffen's collection.

4. HYDROCAMPA STAGNALIS.

Alba; thorax nigro varius; abdomen fuscum; alæ lineis duabus undulatis fuscis albido interlineatis, linea marginali subochracea nigro punctata; anticæ lineis connexis, linea interiore fusca.

Phalæna-Geometra stagnata, *Donov. Engl. Ins.* xi. 9, pl. 363, f. 3.
Pyralis potamogalis, *Schr. Faun. Boic.* ii. 2, 62, 1714. *Hübn. Pyral.* pl. 13, f. 82.
Nymphula potamogalis, *Hübn. Verz. Schm.* 362, 3465.
Nymphula nymphæalis, *Treit. Schm.* vii. 141, 10. *Herr.-Schæff. Eur. Schm.* iv. 11, 11.
Hydrocampa nymphæalis, *Dup. Lép.* viii. 2, 177, pl. 222, f. 3. *Steph. Ill. Brit. Haust.* iv. 392.
Hydrocampa stagnalis, *Guen. Delt. et Pyral.* 276, 269.

a—p. England. From Mr. Stephens' collection.
q—t. England.
v, u. Europe. From M. Becker's collection

South America.

5. HYDROCAMPA ITEALIS.

Fœm. *Alba; palpi breviusculi; articulus 3us 2i dimidio non longior; antennæ submoniliformes; alæ longæ, angustæ, fusco subconspersæ, punctis marginalibus nigris; anticæ lineis pallide luteis obliquis subobsoletis, reniformi e puncto nigro; posticæ lineis fuscescentibus sat conspicuis, gutta apud costæ medium fusca.*

Female. White. Palpi rather short, obliquely ascending; third joint lanceolate, not more than half the length of the second. Antennæ slender, submoniliform. Abdomen extending some distance beyond the hind wings. Wings long, narrow, slightly and minutely speckled with brown; marginal points black, hardly visible on the fore wings. Fore wings with oblique almost obsolete pale luteous lines; reniform mark forming a black point. Hind

wings with the lines brownish, more apparent than those of the fore wings; a brown dot near the middle of the costa. Length of the body 3 lines; of the wings 8 lines.

a. United States. Presented by E. Doubleday, Esq.
b. Georgia. From Mr. Milne's collection.

South America.

6. Hydrocampa Clymenalis.

Fœm. *Alba; palporum articulus 2us apice nigro punctatus; 3us 2i dimidio non longior; thorax punctis duobus anticis lateralibus nigris; abdomen alas posticas perpaullo superans; tibiæ anticæ nigro punctatæ; alæ anticæ punctis basalibus nigris, lineis luteis, linea 3a flexa antice fusca intus strigam fuscam emittente, linea adhuc exteriore indistincta, linea marginali costam versus nigro-fusca arcuata postice obsoleta; posticæ linea exteriore undulata pallide fusca, linea adhuc exteriore pallide flava.*

Female. White. Palpi curved, obliquely ascending; second joint with a black point at its tip; third lanceolate, about half the length of the second. Antennæ not moniliform. Thorax with a black point on each side in front. Abdomen extending very little beyond the hind wings. Fore tibiæ with black points. Fore wings with two or three black points at the base and with luteous lines; first line basal; second interior; third bent, brown in front, and with a brown streak on its inner side, accompanied on the outer side by an indistinct line; marginal line obsolete, except in front, where it is blackish brown and curved. Hind wings with a pale brown undulating exterior line and a more exterior faint pale yellow line. Length of the body 3¼ lines; of the wings 10 lines.

a. Venezuela. From Mr. Dyson's collection.

7. Hydrocampa Endoralis.

Alba; thorax lineis duabus transversis nigris; palporum articulus 3us 2i dimidio brevior; alæ nigro subconspersæ, lineis sex obliquis luteis ex parte fusco marginatis, linea exteriore valde flexa, linea antemarginuli fusca, linea marginali nigro punctata.

White, with a few black speckles, which form two transverse lines on the thorax. Third joint of the palpi less than half the

length of the second. Wings with six oblique luteous partly brown-bordered bands; fourth or exterior band much bent; a brown line between the submarginal line and the marginal one, which is accompanied by black points. Length of the body 4 (?) lines; of the wings 9 lines.

a. Honduras. From Mr. Dyson's collection.

8. Hydrocampa Laothoealis.

Fœm. *Alba; palpi longiusculi; articulus 3us 2i dimidio longior; thoraæ punctis duobus anticis lateralibus nigris; abdomen alas posticas perpaullo superans; alæ anticæ punctis duobus basalibus nigris, lineis quatuor subarcuatis pallide fuscis, 1a abbreviata, 2a interrupta antice duplicata, 3a antice duplicata postice obsoleta, 4a marginali apud alæ apicem strigam obliquam nigricantem fingente, costa ex parte lutea nigro biguttata; posticæ lineis minus determinatis.*

Female. Closely allied to *H. Clymenalis*. White. Palpi ascending, rather long; third joint lanceolate, more than half the length of the second, with which it forms an angle. Antennæ quite smooth. Thorax with a black point on each side in front. Abdomen extending very little beyond the hind wings. Fore wings with two black points at the base; four slight curved pale brown lines; first abbreviated in front and behind; second double in front, interrupted in the middle; third double in front, obsolete hindward; fourth marginal, terminating in an oblique apical blackish streak; costa partly luteous, with a black dot near the base, and another beyond two-thirds of the length. Hind wings with the lines more incomplete. Length of the body 3 lines; of the wings 8 lines.

a, *b*. Venezuela. From Mr. Dyson's collection.

Africa.

9. Hydrocampa Circealis.

Mas.—*Cinerea; caput apud oculos album; palporum articulus 3us 2i dimidio brevior; abdomen alas posticas dimidio superans; alæ albæ, nigro subconspersæ, lineis obliquis fuscis; linea exteriore lata, submarginali tenui, fimbria fuscescente.* Fœm.—*Alæ anticæ fasciis ferrugineo-fuscis latioribus; posticæ lineis angustioribus.*

Male.—Cinereous. Head white about the eyes. Palpi obliquely ascending; third joint elongate-conical, less than half the length of the second. Abdomen extending for half its length beyond the hind wings. Wings white, with a few black speckles, and with oblique brown lines; middle line slender; exterior line broad; submarginal line slender; fringe brownish. *Female.*—Fore wings with the lines ferruginous-brown, broader than in the male. Hind wings with narrower lines. Length of the body 3—3½ lines; of the wings 7—8 lines.

a, *b*. South Africa. Presented by Sir A. Smith.

10. HYDROCAMPA PICALIS.

Mas. *Alba; alæ anticæ fasciola marginali fulva nigro lineata, linea exteriore nigro-fusca contorta maculaque magna apud marginem interiorem connexis, macula magna discali obliqua ovata subocellata nigro-fusca antice fulvescente subtincta, macula interiore discali, costa basali nigro-fusca; posticæ macula basali nigricante, linea media undulata postice fulvo marginata, atomis exterioribus fusco-cinereis, punctis marginalibus nigris bene determinatis, puncto discali candido.*

Hydrocampa picalis, *Guen. Delt. et Pyral.* 274, 264.
Hindostan.

11. HYDROCAMPA DEPUNCTALIS.

Fœm. *Alba; alæ oblongæ, linea marginali vix determinata lunulisque pallidissime flavescente-fusois; anticæ maculis quatuor fuscis, 1a interiore minore nigro-fusco conspersa, costa subtus fuscescente; posticæ maculis quinque fuscis, duabus costalibus, tribus triangulum versus angulum interiorem fingentibus.*

Hydrocampa depunctalis, *Guen. Delt. et Pyral.* 274, 265.
Hindostan.

Australasia.

12. Hydrocampa? Meropalis.

Fœm. *Fuscescente-cinerea, conspersa; palpi erecti, subpilosi, breviusculi; articulus 3us linearis, apice obtusus, 2i dimidio longior; antennæ albidæ, submoniliformes; alæ vix longæ, lineis duabus obliquis diffusis indistinctis albidis, linea submarginali albida concisa, linea marginali nigricante; anticæ acutæ, reniformi e lunula albida.*

Female. Brownish cinereous, speckled, paler beneath. Palpi vertical, slightly pilose, rather short; third joint linear, obtuse at the tip, more than half the length of the second. Antennæ whitish, submoniliform, rather long and slender. Abdomen extending rather beyond the hind wings. Legs rather long and slender. Wings hardly long, with two diffuse indistinct whitish lines; submarginal line whitish, concise, more distinct; marginal line blackish. Fore wings acute; reniform mark indicated by a whitish lunule. Length of the body 3 lines; of the wings 7 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

13. Hydrocampa Tullialis.

Fœm. *Ferrugineo-fusco; palporum articulus 3us linearis, 2i dimidio non brevior: antennæ moniliformes; pedes cinerei, postici albi; alæ anticæ peracutæ, apud discum nigro conspersæ, lineis duabus obliquis diffusis albis, fimbria cinerea basi alba nigro punctata; posticæ albæ, vittis tribus fuscis, basi fusco conspersæ.*

Female. Ferruginous-brown, whitish beneath. Palpi curved, obliquely ascending; third joint linear, rounded at the tip, full half the length of the second. Antennæ slender, moniliform. Abdomen brownish cinereous. Anterior legs cinereous; hind pair white. Fore wings very acute, speckled with black on the disk; two diffuse oblique lines composed of white speckles; one exterior; the other submarginal; fringe cinereous, white and with black points at the base. Hind wings white, with brown speckles towards the base, and with three brown stripes; the third marginal, and with a paler disk. Length of the body 5 lines; of the wings 13 lines.

a, b. Australia. From M. Damel's collection.

Fam. 6. SPILOMELIDÆ.

Corpus gracile. Ocelli distincti. Proboscis longa, robusta. Palpi breves, compressi, sæpissime lati, squamosi, articulis indistinctis. Palpi maxillares indistincti. Antennæ longæ, setaceæ, basi approximatæ et fere contiguæ, articulis plurimis appressis. Abdomen longum. Pedes longissimi. Alæ integræ, læves, nitentes, oblongæ, concolores, lituris non diversis; maculæ sæpe semihyalinæ. *Mas.*—Abdomen attenuatum, apice acutum valvis elongatis. *Fœm.*—Abdomen apice obtusum pilosum.

Spilomelidæ, *Guen. Delt. et Pyral.* 277.

Body slender. Ocelli distinct. Proboscis long, stout. Palpi short, compressed, squamous, generally broad; joints indistinct. Maxillary palpi obsolete. Antennæ setaceous, long or very long, approximate or almost contiguous at the base, with numerous and closely connected joints. Abdomen long. Legs very long. Wings entire, smooth, shining, alike in colour and with similar markings, often with semihyaline spots. *Male.*—Abdomen more attenuated, acute at the tip and with elongated valves. *Female.*—Abdomen obtuse and pilose at the tip.

A. Alæ lituris aut semihyalinis.
  A. Pedes antici non pilosi. - - 1. LEPYRODES, *Guen.*
  B. Pedes antici pilosi. - - - 2. PHALANGIODES, *Guen.*
B. Alæ lituris nullis hyalinis.
  A. Fasciculus frontalis non productus.
    A. Palpi apice non truncati nec obtusi. 3. ZEBRONIA, *Hübn.*
    B. Palpi apud apices oblique truncati. - 5. NISTRA, *Walk.*
    C. Palpi apice obtusi. - - - 6. MASSEPHA, *Walk.*
  B. Fasciculus frontalis productus. - - 4. PAGYDA, *Walk.*

Genus 1. LEPYRODES.

Corpus gracile. Caput exstans. Ocelli distincti. Proboscis longiuscula. Palpi breves, compressi, squamosi, latissimi; articuli indistincti. Antennæ longæ, graciles, simplices, filiformes. Abdomen attenuatum, alas posticas longe superans. Pedes longi, graciles, læves, calcaribus longis. Alæ concolores, maculis vitreis; anticæ oblongæ, apice acutæ aut subfalcatæ; posticæ breves, subsinuatæ.

Lepyrodes, *Guen. Delt. et Pyral.* 277.

Body slender. Head prominent. Ocelli distinct. Proboscis rather long. Palpi short, compressed, squamous, very broad; joints indistinct. Antennæ long, slender, simple, filiform. Abdomen attenuated, extending much beyond the hind wings. Legs long, slender, smooth; spurs long. Wings alike in colour and with like markings, composed of vitreous spots. Fore wings oblong, acute or subfalcate at the tips. Hind wings short, slightly sinuated.

Type, *L. geometralis.*

South America.

1. Lepyrodes? Nigæusalis.

Cinereo-fusca; palpi breves, lati, ascendentes, articulis indistinctis; antennæ breviusculæ; pedes antici fusco fasciati; alæ anticæ fasciis tribus albis semihyalinis nigricante interlineatis et diffuse marginatis, linea marginali fusca perangusta, fimbria alba, costa nigro punctata; posticæ albæ, semihyalinæ, lineis interiore et exteriore denticulatis et margine exteriore lato cinereo-fuscis.

Cinereous-brown, white beneath. Palpi short, broad, ascending; joints indistinct. Antennæ smooth, rather short. Fore legs with brown bands. Fore wings with three irregular white semihyaline bands, with diffuse blackish borders, and intersected by blackish lines; a very narrow brown marginal line; fringe white; costa with elongated black points. Hind wings white, semihyaline; interior and exterior lines cinereous-brown, denticulated; exterior border broadly cinereous-brown. Length of the body 2¼ lines; of the wings 6 lines.

a. Honduras. From Mr. Dyson's collection.

Africa.

2. Lepyrodes quadrinalis.

Mas. *Alæ flavescente et fusco nebulosæ, maculis magnis albohyalinis fusco marginatis, fimbria alba fusco trinotata; anticæ acutæ, non falcatæ, maculis duabus magnis hyalinis, 1a reniformi interlineas duas hyalinas, 2a apud costam flava, punctis duobus intermediis posticis hyalinis; posticæ basi maculaque magna ovata hyalinis, postice flavæ fusco marginatæ.*

Lepyrodes quadrinalis, *Guen. Delt. et Pyral.* 278, 270.
Central Africa.

Asia.

3. Lepyrodes geometralis.

Ochracea; alæ strigis transversis plurimis nigris, maculis guttisque variis hyalinis nigro marginatis; anticæ falcatæ.

Lepyrodes geometralis, *Guen. Delt. et Pyral.* 278, 271.
Hindostan.

a. Ceylon. Presented by R. Templeton, Esq.
b, c. Ceylon. From Mr. Stevens' collection.
d. China. Presented by G. T. Laye, Esq.
e. Java. From the East India Company's collection.

4. Lepyrodes? lepidalis.

Mas et fœm. *Cervina; palpi porrecti, fere rostriformes; abdominis segmenta albo marginata; alæ fimbria alba basi fusco punctata; anticæ fasciis tribus macularibus vitreis nigro submarginatis; posticæ vitreæ, fasciis duabus fuscescentibus marginalis, puncto interiore discali lineaque marginali fuscis.*

Male and female. Fawn-colour, cinereous beneath. Palpi porrect, somewhat rostriform. Antennæ moderately long. Abdomen extending somewhat beyond the hind wings; hind borders of the segments white. Wings with a white fringe, which has brown points at the base. Fore wings with three irregular vitreous bands, composed of spots and dots which are partly bordered with black. Hind wings vitreous, with two brownish dark-bordered bands; first band interior, accompanied by a brown discal point on its inner side; second broad, marginal, accompanied along part of its inner side by a denticulated brown line. Length of the body 4½ lines; of the wings 10 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b—g. Ceylon. From Mr. Stevens's collection.
h. North Hindostan. From Mr. Stevens' collection.

5. LEPYRODES PERITALIS.

Fœm. L. lepidali *simillima, cervina; abdominis segmenta albo marginata; alæ fimbria alba lineam fuscescentem integram includente; anticæ fasciis tribus intersectis albo-vitreis, 3a brevissima, linea exteriore e punctis albis; posticæ vitreæ, fasciis duabus fuscescentibus, puncto interiore lineaque submarginali fuscis.*

Female. Very nearly allied to *L. lepidalis*, but apparently distinct. Fawn-colour, cinereous beneath. Abdominal segments with white hind borders. Wings with a white fringe which has a brownish line, the latter not interrupted as in *L. lepidalis*. Fore wings with three irregular intersected vitreous white bands; third band very short, consisting of two streaks, beyond which there is a line composed of white points. Hind wings much like those of *L. lepidalis*. Length of the body 2½—3 lines; of the wings 6—7 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b. Ceylon. From Mr. Stevens' collection.

Australia.

6. LEPYRODES? IOLEALIS.

Mas et fœm. *Cinereo-fusca; oculi albo cincti; palpi porrecti; articulus 3us longi-conicus, 2i dimidio longior; antennæ mediocres; abdominis segmenta albo marginata; alæ fasciis tribus obliquis vagis albis semihyalinis e maculis variis ex parte confluentibus, margine exteriore nigricante; anticæ subfalcatæ.*

Male and female. Cinereous-brown, white beneath. Head white about the eyes. Palpi porrect, not longer than the breadth of the head; third joint elongate-conical, acute, more than half the length of the second. Antennæ moderately long. Abdomen extending for nearly half its length beyond the hind wings in the male, shorter in the female; hind borders of the segments white. Wings with three oblique very irregular white semihyaline bands, which are composed of various partly confluent spots; exterior border blackish; fringe brownish, white at the base. Fore wings subfalcate. Length of the body 4—5 lines; of the wings 9—10 lines.

a. Sydney. From Mr. Lambert's collection.
b. Moreton Bay. From Mr. Diggles' collection.
c. Australia. From M. Damel's collection.

Genus 2. PHALANGIODES.

Corpus gracillimum. Frons angusta, plana. Oculi magni. Proboscis longissima, gracillima. Palpi compressi, lati, porrecti; articulus 2us subtus pilosissimus; 3us minutus, indistinctus. Antennæ setaceæ, longissimæ, gracillimæ. Abdomen longissimum, valde attenuatum, alas posticas longe superans. Pedes longissimi, gracillimi, tibiis tarsisque anticis dense pilosis, tibiis intermediis incrassatis lanuginosis. Alæ lituris variis semihyalinis; anticæ angustæ, elongatæ, acutæ; posticæ breves, latæ, trigonæ, angulo interiore producto. *Mas.*—Alæ posticæ areola vitrea iridescente perangusta.

Nausinöe, p., *Hübn. Verz. Schm.* 362.
Phalangiodes, *Guen. Delt et Pyral.* 278.

Body very slender. Front narrow, flattened. Eyes large. Proboscis very long and slender. Palpi compressed, broad, porrect; second joint very pilose beneath; third minute, indistinct. Antennæ setaceous, very long and slender. Abdomen very long and attenuated, extending far beyond the hind wings. Legs very long and slender; fore tibiæ and fore tarsi densely pilose; middle tibiæ incrassated, and forming a case which contains cottony hairs; spurs long, unequal. Wings with various semihyaline marks. Fore wings narrow, elongate, acute. Hind wings short, broad, triangular; interior angle prolonged. *Male.*—Hind wings with a very narrow vitreous iridescent areolet.

1. Phalangiodes Neptalis.

Pallide ochracea; thorax albo bifasciatus; abdomen albo fasciatum; alæ anticæ maculis variis albis semihyalinis fusco marginalis; posticæ albæ, semihyalinæ, fascia flexa margineque connexis maculaque interiore pallide ochraceis fusco-marginatis.

Phalæna-Noctua Neptis, *Cram. Pap. Exot.* iii. 128, pl. 264, f. F.
Nausinöe Neptalis, *Hübn. Verz. Schm.* 363, 3466.
Phalangiodes Neptisalis, *Guen. Delt. et Pyral.* 279, 272.

Surinam.

a. Canada. From Mr. Lamb's collection.
b. Ceylon. Presented by R. Templeton, Esq.
c. Ceylon. From Mr. Stevens' collection.

d. North Hindostan. From Mr. James' collection.
e, f. North Hindostan. From Mr. Stevens' collection.
g. Hindostan. From Archdeacon Clerk's collection.
h. Moreton Bay. From Mr. Diggles' collection.
i. ——— ?

2. PHALANGIODES SERINALIS.

Mas. *Pallide ochracea; palpi breves, subtus pilosi; antennæ læves, longiusculæ; abdomen attenuatum, alas posticas longe superans, segmentis albo fasciatis; alæ angustæ, lineis duabus pallide fuscescentibus, interiore subundulata, exteriore valde undulata magis obliqua, fimbria alba; anticæ valde productæ, fasciis tribus vagis albis subvitreis, fimbria fusco notata; posticæ subvitreæ.*

Male. Pale ochraceous, white beneath. Palpi short, slightly ascending, pilose beneath; joints indistinct. Antennæ smooth, rather long. Abdomen attenuated, extending far beyond the hind wings; a white band on the hind border of each segment. Wings narrow, with two pale brownish lines; interior line slightly undulating; exterior line more oblique, very undulating; fringe white. Fore wings much prolonged towards the tips; exterior border extremely oblique; three oblique irregular white iridescent nearly vitreous bands, which are intersected by the ochraceous veins; fringe with brown intervals. Hind wings nearly vitreous, with a brownish marginal band which is attenuated hindward. Length of the body 5—6 lines; of the wings 12—14 lines.

a—*c*. United States. Presented by E. Doubleday, Esq.
d. ——— ?

3. PHALANGIODES? NEGATALIS.

Fœm. *Cinereo-alba; palpi breves, lati, fuscescentes, vix ascendentes, articulis indistinctis; antennæ sat validæ; abdomen alas posticas perpaullo superans; alæ anticæ cinereæ, lineis undulatis fuscescentibus, fasciis tribus maculaque subapicali semivitreis; posticæ semivitreæ, fasciis tribus cinereis apud venas fuscis, 1a 2aque incompletis, 3a marginali.*

Female. Cinereous-white. Palpi short, broad, brownish, hardly ascending; joints indistinct. Antennæ rather stout. Abdomen extending very little beyond the hind wings. Fore wings cinereous, with undulating brownish lines, with three semivitreous bands, and with a semivitreous spot near the tip of the costa;

a brownish point in the second band. Hind wings semivitreous, with three cinereous bands, which are brown on the veins; first and second incomplete; third marginal. Length of the body 5½ lines; of the wings 13 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Genus 3. ZEBRONIA.

Corpus gracile. Ocelli distincti. Proboscis longa, strenua. Palpi breves, robusti, erecti, subarcuati; articulus 2us antice pilosus; 3us conicus, minimus. Antennæ setaceæ, longæ, graciles, læves. Abdomen longum, alas posticas superans. Pedes longi, læves, calcaribus longissimis. Alæ læves, nitentes, subiridescentes, sæpissime albæ, lituris transversis obscuris; anticæ oblongæ, apice plus minusve elongatæ; posticæ angulo interiore plus minusve producto. *Mas.*—Abdomen attenuatum, longissimum.

Zebronia, *Hübn. Verz. Schm*, 361.
Spilomela, *Guen. Delt. et Pyral.* 280.

Body slender. Ocelli distinct. Proboscis long, stout. Palpi short, stout, vertical, slightly curved; second joint pilose in front; third conical, minute, not more than one-fourth of the length of the second. Antennæ long, slender, smooth, cylindrical, setaceous. Abdomen long, extending beyond the hind wings. Legs long, smooth; spurs very long. Wings smooth, shining, rather iridescent, generally white with transverse dark marks. Fore wings oblong, more or less elongated at the tips. Hind wings with the interior angle more or less elongated. *Male.*—Abdomen longer and more attenuated than in the female.

Type, *Z. perspicalis*. Several of the following *Zebroniæ* differ somewhat in character from the type, but may continue in the genus until additional species are known.

North America.

1. ZEBRONIA PLATINALIS.

Alba; thorax antice nigro trimaculatus; abdomen nigro fasci et apice trivittatum, apicem versus luteum; alæ nigro gr lineatæ; anticæ linea 3a valde serpentina, annulis costalibus nigris.

Spilomela platinalis, *Guen. Delt. et Pyral.* 282, 277.

a—d. United States. Presented by E. Doubleday, Esq

West Indies.

2. Zebronia Hedonialis.

Mas et fœm. *Alba; palporum articulus 3us parvus; thorax litura antica vittisque duabus lateralibus nigris; abdomen nigro luteoque fasciatum; pedes antici tarsique postici nigro fasciati; alæ anticæ lineis septem nigris, 4a annulum anticum fingente, 5a valde serpentina lituram costalem* V*-formem fingente, 6a antice lata posticè tenui, 7a marginali interrupta; posticæ lineis quatuor incompletis, submarginali antice dilatata, margine exteriore luteo guttis nigris.*

Male and female. White. Third joint of the palpi minute. Thorax with a black mark in front, and with a short black stripe on each side. Abdomen with black and luteous bands. Fore legs and hind tarsi with black bands. Fore wings with seven black lines; first, second and third near the base; fourth forming a ringlet by the costa and an oblique hindward streak; fifth forming an irregular V-shaped mark by the costa, and emitting thence a very slender and serpentine line; sixth broad in front, slender hindward; seventh marginal, interrupted, on a slightly luteous ground. Hind wings with four more or less incomplete black lines; the submarginal one dilated in front; exterior margin luteous, with black dots. Length of the body 5—7 lines; of the wings 12 lines.

a, *b*. St. Domingo. From Mr. Tweedie's collection.

South America.

Alæ non luteæ.

1. Alæ luteo non fasciatæ.

A. Alæ anticæ linea submarginali non sinuatissima.

a. Alæ anticæ linea submarginali non obliqua.

perspicalis, *Hübn.*

b. Alæ anticæ linea submarginali obliqua.

i. Alæ anticæ annulo costali.

* Alæ posticæ apud angulum interiorem luteæ.

striginalis, *Guen.*

** Alæ posticæ apud angulum interiorem non luteæ.

† Alæ anticæ lineis exteriore et submarginali non connexis.

‡ Alæ anticæ linea submarginali non denticulata.

Phalæna-Pyralis Levinia, *Cram. Pap. Exot.* iv. 131, pl. 357, f. K.
Spilomela Levinialis, *Guen. Delt. et Pyral.* 283, 281.
Surinam.

8. Zebronia aquaticalis.

Mas. *Flavescente-alba; abdomen flavum, maculis nigris albo marginatis; alæ suboblongæ, fulvescente marginatæ, lituris marginalibus lineisque undatis contortis nigris; anticæ lineis duabus basalibus arcuatis parallelis, V-costali, V 2a apice rotundata lineam emittente apud marginem interiorem dilatatam, linea exteriore sinuatissima V 2æ apicem attingente, linea submarginali sinuatissima; posticæ quadrilineatæ, lineis 1a 2a 3aque apud marginem connexis, 4a valde unduluta.*

Spilomela aquaticalis, *Guen. Delt. et Pyral.* 284, 284.
Brazil.

9. Zebronia receptalis.

Mas et fœm. *Læte lutea; palporum articulus 1us nigro notatus; 3us longi-conicus, 2i dimidio brevior; thorax nigro bivittatus; pectus antice candidum; abdomen fascia subapicali nigra; alæ margine exteriore lineisque purpureis; anticæ lineis tribus interioribus, linea submarginali angulum acutum fingente, litura antica fusiformi vittaque postica brevi, fuscia marginali postice attenuata; posticæ lineis duabus purpureis postice abbreviatis.*

Male and female. Bright luteous. Palpi vertical; first joint with a black mark on each outer side; third elongate-conical, less than half the length of the second. Antennæ slender, smooth. Thorax with a short black stripe on each side in front. Pectus pure white in front. Abdomen with a black subapical band, extending very little beyond the hind wings. Wings with a purple exterior border and with purple lines. Fore wings with three interior lines; first line abbreviated in front; third abbreviated hindward; submarginal line forming an acute angle, and thus extending along the disk, where it has in front a fusiform purple mark, and behind it a short purple stripe which is dilated at the inner end and there joins the interior border; marginal band attenuated hindward. Hind wings with two purple lines which are abbreviated hindward; the

second parallel to the exterior border; costa purple exteriorly. Length of the body 5 lines; of the wings 12 lines.

a. Parà. From Mr. Bates' collection.
b. Villa Nova. From Mr. Bates' collection.

10. Zebronia Erinalis.

Alba; palporum articulus 2us nigro guttatus; 3us conicus, minimus; caput nigro punctatum; antennæ validæ; pedes antici nigro fasciati; alæ semihyalinæ, tenues, iridescentes, lineis nigricantibus; anticæ linea basali abbreviata, 2a integra, 3a costali, 4a antice annulari postice dilatata, 5a antice lata postice tenuissima.

White. Palpi short, vertical; second joint with a black dot on the outer side; third conical, very minute. Head with a black vertical point. Antennæ stout, rather long. Fore legs with black bands. Wings semihyaline, very delicate and iridescent; lines blackish; submarginal and marginal lines parallel. Fore wings with the basal line abbreviated hindward; second complete; third confined to the costa; fourth forming in front an elongated ringlet, oblique hindward and dilated towards the interior border; fifth broad in front, very slender hindward, where it is abbreviated and curved. Hind wings with some traces of the fourth and fifth lines. Length of the body 5 lines; of the wings 12 lines.

a, *b*. Venezuela. From Mr. Dyson's collection.

11. Zebronia Ledalis.

Mas et fœm. *Cinereo-alba; palporum articulus 3us conicus, 2i triente brevior; antennæ pubescentes, sat validæ; thorax antice fusco trinotatus; tibiæ anticæ cinereo-fuscæ; alæ anticæ lineis octo fuscescentibus, 3a postice furcata, 4a arcuata, 5a, 6a et 7a abbreviatis, 7a submarginali; posticæ lineis quinque, 2a antice furcata, 3a postice abbreviata.*

Male and female. Cinereous-white. Palpi vertical; third joint conical, less than one-third of the length of the second. Antennæ pubescent, rather stout. Thorax with three brownish marks in front. Fore tibiæ cinereous-brown. Fore wings with eight brownish lines; first line basal; third forked hindward; fourth curved; fifth, sixth and seventh abbreviated hindward; eigh h submarginal, slightly curved. Hind wings with five lines; second

forked in front; third abbreviated hindward; fourth and fifth slightly curved, almost parallel; fifth marginal. Length of the body 4—4½ lines; of the wings 9 lines.

a—c. Ega. From Mr. Bates' collection.

12. Zebronia Perseusalis.

Fœm. *Alba; palpi breves, lati, erecti, subtus pilosi, articulo 3o vix conspicuo; caput nigro bipunctatum; thorax nigro quadriguttatus; alæ lineis quatuor fuscis subdenticulatis, linea marginali fusca, fimbria fusco interlineata; anticæ linea basali fusca, guttis tribus basalibus nigris, costa nigro punctata, orbiculari et reniformi e annulis duobus fuscis.*

Female. White. Palpi short, broad, vertical, pilose beneath; third joint hardly visible. Head with a black point on each side by the base of the antennæ. Thorax with two black dots on each side. Wings with four slender brown slightly denticulated lines; the submarginal one less distinct than the others; marginal line brown; fringe interlined. Fore wings with a brown basal line, and with three black basal dots, two on the costa and one by the interior border; costa with black points and with a black dot forming the end of the exterior line; orbicular and reniform marks represented by two ringlets, forming parts of the interior and middle lines; reniform much excavated on the outer side. Length of the body 4 lines; of the wings 9 lines.

a, b. Venezuela. From Mr. Dyson's collection.

Africa.

A. Alæ non luteæ.
  A. Alæ luteo non fasciatæ.
    a. Alæ fasciis rectis. - - - Phenicealis, *Cram.*
    b. Alæ lineis angulatis. - - - Salomealis, *Walk.*
  B. Alæ luteo fasciatæ. - - - diaphanalis, *Cram.*
B. Alæ luteæ. - - - - - Cassusalis, *Walk.*

13. Zebronia Phenicealis.

Alba ; thoracis latera antica nigricantia ; abdomen nigricante vittatum ; alæ fasciis duabus margineque nigricantibus ; anticæ costa guttaque connexis fasciaque exteriore nigricantibus.

Phalæna-Pyralis Phenice, *Cram. Pap. Exot.* iv. 185, pl. 382, f. G.
Zebronia fœderalis, *Hübn. Verz. Schm.* 361, 3456.
Spilomela Phenicealis, *Guen. Delt. et Pyral.* 281, 275.
Spilomela Podalirialis, *Guen. Delt. et Pyral.* 281, 274.

Surinam ? Senegal.

a. Ashanti. From the Wesleyan Missionary Society's collection.
b. West Africa. From Mr. Argent's collection.
c. West Africa.
d, *e*. Sierra Leone. From Mr. Foxcroft's collection.
f. ——— ?

14. Zebronia diaphanalis.

Alba ; thorax nigro guttatus ; alæ lineis exteriore et submarginali luteis ; anticæ punctis costalibus et subapicalibus, striga brevi antica guttaque submarginali nigris ; posticæ puncto interiore, gutta submarginali guttaque marginali nigris.

Phalæna diaphana, *Cram. Pap. Exot.* ii. 26, pl. 113, f. G.
Spilomela diaphanalis, *Guen. Delt. et Pyral.* 284, 283.

Sierra Leone.

15. Zebronia Salomealis.

Mas et fœm. *Flaveecente-alba ; palpi fusco bifasciati ; articulus 3us minimus ; thorax guttis nigris ochraceo notatis ; abdomen ochraceum, albo fasciatum, punctis lateralibus fuscis, macula apicali nigra subquadrata ; pedes antici nigro fasciati ; tibiæ intermediæ subincrassatæ, subpubescentes ; alæ lineis tribus nigricantibus undulatis denticulatis, linea marginali nigra ; anticæ guttis basalibus annulisque tribus nigris ; posticæ annulo nigro.*

Male and female. Yellowish white. Palpi short, broad, vertical, with two brown bands ; third joint extremely minute. Thorax with several black ochraceous-marked dots. Abdomen ochraceous, with brown points along each side, and with a white band on

the hind border of each segment; a black subquadrate apical spot. Fore legs with black bands. Middle tibiæ slightly thickened and pubescent. Wings with three irregular undulating denticulated blackish lines; marginal line black; veins partly brown; fringe interlined with brown. Fore wings here and there slightly ochraceous; three black basal dots; three irregular black ringlets; the second behind the first, which corresponds to the orbicular mark; third or reniform mark elongated, contracted in the middle. Hind wings with a ringlet which corresponds to the orbicular mark. Length of the body 6 lines; of the wings 16 lines.

a—e. Sierra Leone. From Mr. Foxcroft's collection.

16. Zebronia Cassusalis.

Fœm. *Luteâ; palpi breves, oblique ascendentes, articulo 3o minimo; thorax fasciis saturate luteis; pedes antici nigro fasciati; alæ fasciis quinque arcuatis obliquis saturate luteis; anticæ puncto basali, guttis tribus costalibus et reniformi nigris.*

Female. Luteous. Palpi short, obliquely ascending, moderately broad; third joint very minute. Thorax with bright luteous bands. Fore legs with black bands. Spurs very long. Wings with five curved oblique bright luteous bands. Fore wings with a black basal point; costa with three black dots; two near the base; one beyond the reniform mark, which also forms a black dot. Length of the body 3½ lines; of the wings 8 lines.

a. Port Natal. From M. Gueinzius' collection.

Asia.

A. Alæ fasciis luteis bene determinatis.
  A. Alæ linea marginali obscura. - - Plutusalis, *Walk.*
  B. Alæ linea nulla obscura. - - aurolinealis, *Walk.*
B. Alæ fasciis lutescentibus non bene determinatis.
  A. Alæ postieæ gutta apicali nigra.
    a. Alæ candidæ. - - - - - meritalis, *Walk.*
    b. Alæ sordidæ. - - - - - abdicalis, *Walk.*
  B. Alæ posticæ gutta nulla apicali.
    a. Alæ posticæ nigro guttatæ. - - lactiferalis, *Walk.*
    b. Alæ posticæ nigro non guttatæ. - - decussalis, *Walk.*
C. Alæ fasciis nullis lutescentibus. - - Mineusalis, *Walk.*

17. Zebronia Plutusalis.

Mas et fœm. *Aureo-flava; palporum articulus 2us latiusculus; 3us brevissimus; antennæ graciles; thorax luteo biguttatus; abdomen fascia subapicali nigra, segmentis albido marginatis; pedes antici nigro fasciati; alæ luteo fasciatæ, linea marginali duplicata fusca; anticæ fasciis quinque luteis, 4a valde flexa, punctis tribus costalibus nigris; posticæ fasciis quatuor, 2a 3aque e striga obliqua connexis.*

Male and female. Golden yellow, whitish cinereous beneath. Palpi vertical; second joint rather broad; third conical, not more than one-fourth of the length of the second. Antennæ slender. Thorax with a bright luteous dot on each side in front. Abdomen extending very little beyond the hind wings, with a black subapical band; hind borders of the segments whitish. Fore tibiæ and fore tarsi with black bands. Wings with bright luteous bands; a double brown marginal line. Fore wings with five bands; fourth or exterior one much bent; costa with three black points. Hind wings with four bands; second and third connected in the middle by an oblique streak. Length of the body 5—6 lines; of the wings 12—13 lines.

a. Hindostan. Presented by E. Doubleday, Esq.
b. Hindostan. From Archdeacon Clerk's collection.
c. North Hindostan. From Mr. James' collection.

18. Zebronia aurolinealis.

Fœm. *Flavescente-alba; palporum articulus 3us longi-conicus, 2i dimidio brevior; antennæ subpubescentes; thorax luteo trifasciatus; tibiæ anticæ nigro bicinctæ; alæ anticæ luteo sexfasciatæ, punctis duobus basalibus guttaque discali nigris; posticæ fasciis quatuor luteis.*

Female. Yellowish white. Third joint of the palpi elongate-conical, less than half the length of the second. Antennæ minutely pubescent. Thorax with three luteous bands. Fore tibiæ with two black rings. Fore wings with six luteous bands, with two black points on the costa near the base, and with a black discal dot corresponding to the reniform mark. Hind wings with four luteous bands. Length of the body 2½—3 lines; of the wings 6—7½ lines.

a. Ceylon. Presented by R. Templeton, Esq.
b, c. Ceylon. From Mr. Stevens' collection.

Mus.? *Læte lutea; palpi validi, erecti, articulo 3o conico parvo; abdomen alas posticas fere dimidio superans, segmentis pallido marginatis; pedes antici nigro fasciati; alæ pallide luteæ, lineis 4a aut 5a luteis undulatis; anticæ guttis tribus costalibus unaque discali nigris.*

Male. Bright luteous, paler beneath. Palpi stout, vertical, rising a little above the head; third joint conical, much more slender than the second, and hardly one-third of its length. Abdomen extending for almost half its length beyond the hind wings; sides and hind borders of the segments paler. Fore tibiæ and fore tarsi with black rings. Wings pale luteous, opaline, with four or five bright luteous undulating lines. Fore wings slightly acute; a black dot in the disk representing the reniform mark; costa with three black dots. Length of the body 6 lines; of the wings 12 lines.

Hindostan. In Mr. Saunders' collection.

19. Zebronia? meritalis.

Fœm. *Alba; palporum articulus 3us lanceolatus, 2i dimidio brevior; abdomen guttis duabus basalibus nigris; segmentum apicale basi luteum; tibiæ anticæ nigro bicinctæ; alæ lineis duabus incompletis flavis; anticæ punctis duobus basalibus, lituris duabus costalibus angulatis nigris, margine exteriore antico, gutta submarginali guttaque discali nigris; posticæ nigro quadriguttatæ.*

Female. White. Palpi curved; third joint lanceolate, less than half the length of the second. Abdomen with a black dot on each side near the base; apical segment luteous at the base. Fore tibiæ with two black rings. Wings with two slender indistinct incomplete yellow lines. Fore wings with a black basal costal point; another black point near the base; two exterior black V-shaped marks; exterior border black in front; a black submarginal hindward dot; a black dot in the disk behind the first V-shaped mark. Hind wings with four black dots; one interior and subcostal; the second apical; the third on the hind part of the exterior border; the fourth on the interior border near the interior angle. Length of the body 3 lines; of the wings 8 lines.

a. Ceylon. Presented by R. Templeton, Esq.

20. ZEBRONIA? LACTIFERALIS.

Fœm. *Alba; palpi recurvi; articulus 2us extus nigro punctatus; 3us lanceolatus, 2i dimidio non longior; abdomen guttis duabus basalibus nigris strigisque duabus apicalibus luteis; tibiæ nigro bicinctæ; alæ linea exteriore incompleta marginequé exteriore flavescentibus; anticæ apud costam flavescentes, guttis quatuor costalibus, gutta subcostali guttaque apud angulum interiorem nigris; posticæ gutta discali interiore guttaque apud angulum interiorem nigris.*

Female. White. Palpi recurved over the head; second joint with a black point on the outer side; third lanceolate, about half the length of the second. Abdomen with a black dot on each side near the base, and with a luteous streak on each side near the tip. Fore tibiæ with two black rings. Wings yellowish along the exterior border, and with an exterior indistinct and incomplete yellowish line. Fore wings yellowish along the costa, with six black marks; a basal costal dot; another costal dot near the base; two exterior costal points; a dot in the disk near the costa, and another near the interior angle. Hind wings with a black discal dot near the base, and with another black dot near the interior angle. Length of the body 5 lines; of the wings 10 lines.

a. Hindostan. From Archdeacon Clerk's collection.

21. ZEBRONIA ABDICALIS.

Fœm. *Flavescente-alba; palporum articulus 3us 2i dimidio valde brevior; thorax nigro biguttatus; abdomen guttis duabus basalibus transversis nigris, apicem versus lutescens; tibiæ anticæ nigro bicinctæ; alæ lineis duabus indistinctis luteis, litura apicali nigricante, gutta submarginali nigra; anticæ guttis duabus basalibus nigris; strigis costalibus fuscis nigro punctatis, lituris duabus costalibus angulatis nigris; posticæ linea interiore lutea apud angulum interiorem nigricante.*

Female. Yellowish white. Third joint of the palpi much less than half the length of the second. Thorax with a black dot on each side in front. Abdomen with a black transverse dot on each side near the base, partly luteous towards the tip. Fore tibiæ with two black rings. Wings with two indistinct and incomplete luteous lines; a blackish apical mark and a black dot hindward near the exterior border. Fore wings with two black costal dots by the

base, and with some brown transverse black-pointed costal streaks from thence to the interior of two V-shaped black costal marks. Hind wings with the interior luteous line assuming a black hue on approaching the interior angle. Length of the body 3—4 lines; of wings 8—10 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b. Hindostan. From Archdeacon Clerk's collection.
c—i. China. Presented by G. T. Laye, Esq.

22. ZEBRONIA? DECUSSALIS.

Mas et fœm. *Alba; palporum articulus 3us 2i dimidio valde longior; antennæ moniliformes, sat rabustæ; alæ fasciis tribus obliquis interruptis lunulisque marginalibus cervinis; anticæ orbiculari et reniformi e guttis duabus nigris, hac transversa.*

Male and female. White. Third joint of the palpi much more than half the length of the second. Antennæ moniliform, rather stout. Wings with three interrupted oblique fawn-coloured bands, and with fawn-coloured marginal lunules. Fore wings with two black dots corresponding to the orbicular and reniform marks; the latter transverse. Length of the body 2½—3 lines; of the wings 5—7 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b, c. Ceylon. From Mr. Stevens' collection.

23. ZEBRONIA? MINEUSALIS.

Fœm. *Alba; caput et thorax anticus lutescente-alba, illum nigro biguttatum; palpi porrecti, caput superantes; articulus 2us linearis, latiusculus; 3us minimus; thoraæ nigro quadriguttatus; abdomen pallide luteum, nigro quadriguttatum; segmentorum marginibus posticis apiceque albis; pedes antici nigro fasciati; alæ lineis duabus nigris, exteriore undulata, linea submarginali e guttis elongatis nigris, margine exteriore luteo; anticæ basi nigro quadriguttatæ, reniformi nigra angusta albido lineata non excavata.*

Female. White. Head and fore part of the thorax with a luteous tinge. Head with a black point at the base of each antenna; frontal tuft rather prominent. Palpi porrect, extending somewhat beyond the head; second joint linear, rather broad; third

very minute. Thorax with two black dots on each side in front. Abdomen mostly pale luteous; hind borders of the segments and tip white; two black dots on each side near the base. Fore legs with black bands. Wings with two black lines; the exterior one deeply undulating; submarginal line forming elongated black dots; exterior border luteous. Fore wings with four black basal dots; reniform mark black, narrow, not excavated, with a whitish line in the disk. Length of the body 5½ lines; of the wings 12 lines.

a. Hindostan. From Archdeacon Clerk's collection.

Australasia.

A. Alæ fasciis bene determinatis.
  A. Alæ fasciis luteis. - - - - Pyrrhalis, *Walk.*
  B. Alæ fasciis fuscis.
    A. Alæ fasciis quatuor. - - - - Xiphialis, *Walk.*
    B. Alæ fasciis duabus. - - - - Renatusalis, *Walk.*
B. Alæ fasciis non bene determinatis.
  A. Alæ sordidæ. - - - - - Œthonalis, *Walk.*
  B. Alæ candidæ.
    A. Alæ anticæ gutta nulla apud angulum interiorem. Cabiralis, *Guen.*
    B. Alæ anticæ gutta apud angulum interiorem. Idalis, *Walk.*

24. Zebronia Cabiralis.

Mas. S. Leviniali *simillima; alæ magis flavescentes, linea flava valde latiore, puncto apicali bene determinato; anticæ puncto basali minimo.* Fœm.—*Alæ linea tenui nigricante, costa fusca linea marginali nigra.*

Spilomela Cabiralis, *Guen. Delt. et Pyral.* 284, 282.

Java.

Var.? Female. White. Palpi curved over the head; third joint lanceolate, more than half the length of the second. Thorax with a black dot on each side in front. Abdomen with a black dot on each side near the base; apical segment black at the base. Fore tibiæ with two black rings. Wings with incomplete yellowish brownish-shaded lines. Fore wings with various black costal marks from the base to the interior of two V-shaped larger costal marks; a black apical dot, and a submarginal dot hindward; three black

points along the interior border. Hind wings with three black dots; one apical; the second hindward and submarginal; the third by the interior angle. Length of the body 4½ lines; of the wings 11 lines.

a. ——— ? From Mr. Foxcroft's collection.

25. ZEBRONIA PYRRHALIS.

Mas. *Albida; palpi arcuati, verticem vix superantes; articulus 2us luteo subnotatus; 3us brevissimus, subtruncatus; palpi maxillares distincti; antennæ sat longæ; abdomen longum, luteo bivittatum, litura apicali nigra; pedes antici nigro fasciati; alæ anticæ fasciis sex luteis, 1a, 2a, 3aque apud costam nigricantibus, 5a 6aque postice connexis; posticæ fasciis qualuor luteis, 3a 4aque postice connexis.*

Male. Whitish. Palpi curved, hardly rising above the vertex; second joint with a slight luteous mark on the outer side; third somewhat truncated, hardly one-fourth of the length of the second. Maxillary palpi distinct. Antennæ rather long. Abdomen extending rather far beyond the hind wings, with a luteous stripe along each side and with a black apical mark. Fore legs with black bands. Fore wings with six luteous bands; first, second and third blackish on the costæ; fifth and sixth less bright than the others, united hindward. Hind wings with four luteous bands; third and fourth united hindward. Length of the body 7 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

26. ZEBRONIA XIPHIALIS.

Fœm. *Alba; caput cinereum; palpi compressi, caput vix superantes, articulis indistinctis; abdomen apice nigrum; alæ lineis quatuor obliquis fuscis, 1a 2aque subparallelis, 3a magis obliqua, 4a marginali, fimbria interlineata; anticæ apud costam fuscæ, lineola antica apud discum reflexa et in lineam 2am terminata.*

Female. White. Head and palpi cinereous; the latter compressed, fringed, hardly rising above the head; joints indistinct. Antennæ squamous. Abdomen extending a little beyond the hind wings, black above at the tip. Wings with four brown oblique lines; first and second nearly parallel; third more oblique, parallel

to the fourth, which is marginal; fringe whitish, interlined with brown. Fore wings brown along the costa; a brown line between the second and third lines extending from the costa to the disk, and there abruptly reflexed and joining the middle of the second line. Length of the body 3½ lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

27. Zebronia Renatusalis.

Mas. *Alba; palpi graciles, ascendentes; articulus 3us 2o paullo brevior et gracilior; antennæ breviusculæ, sat graciles; pedes antici nigricante fasciati; alæ anticæ lineis exteriore et submarginali fuscis arcuatis, illa apud marginem interiorem dilatata, lituris marginalibus luteis, lineola antica punctoque posteriore marginalibus nigris.*

Male. White. Palpi slender, ascending; third joint rather shorter and more slender than the second. Antennæ rather short and stout. Abdomen extending somewhat beyond the hind wings. Fore legs with blackish bands. Fore wings with the exterior and submarginal lines brown, slender, curved; the former dilated on the interior border; some luteous marks between the submarginal line and the border, where there is a short black line in front and a black point about the middle. Length of the body 3 lines; of the wings 6 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

28. Zebronia Œthonalis.

Fœm. *Cinereo-alba; palpi arcuati, ascendentes; articulus 3us brevissimus, gracillimus; antennæ breviusculæ, sat validæ; thorax nigro triguttatus et bipunctatus; alæ lineis interiore et exteriore undulatis punctisque marginalibus nigricantibus; anticæ reniformi angusta nigricante, costa nigro triguttata.*

Female. Cinereous-white. Palpi curved, ascending; second joint squamous-pilose; third very short and slender. Antennæ rather short and stout. Thorax with three black dots forming a band, and with a black point on each side in front. Wings with the interior and exterior lines slender, blackish, undulating; the latter much bent; marginal points blackish. Fore wings with the reniform mark narrow, blackish; costa with two black dots near the

base, and with a third forming the end of the exterior line. Length of the body 3 lines; of the wings 7 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

29. ZEBRONIA IDALIS.

Fœm. *Alba; palpi graciles, oblique ascendentes; articulus 3us lanceolatus, 2i dimidio longior; segmentum abdominale penultimum bifasciculatum; pedes gracillimi; alæ anticæ lituris tribus costalibus fuscis, 2& 3aque lineolas luteas emittentibus, linea submarginali arcuata lutea fusco submarginata, guttis duabus subapicalibus unaque apud angulum interiorem nigris, margine exteriore subluteo; posticæ guttis tribus nigris, lineis duabus exterioribus fuscis valde abbreviatis.*

Female. White. Palpi slender, obliquely ascending; third joint lanceolate, more than half the length of the second. Abdomen not extending much beyond the hind wings, with two slender tufts extending from the subapical segment. Legs very slender. Fore wings with three brown marks along the costa; the second and third emitting two much abbreviated luteous lines; a curved submarginal luteous line, partly bordered with brown, ending in a black dot by the interior angle, and having two black subcostal dots between it and the somewhat luteous exterior border. Hind wings with two black dots in the disk, one by the interior angle, and two exterior brown lines which are much abbreviated hindward. Length of the body 3 lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Australia.

30. ZEBRONIA? PLEXIPPUSALIS.

Mas. *Alba; palpi graciles, erecti; articulus 3us lanceolatus, 2i dimidio longior; tibiæ anticæ nigro fasciatæ; abdomen nigro biguttatum; alæ lineis duabus testaceis angulatis subobsoletis; anticæ guttis tribus basalibus duabusque submarginalibus nigris, orbiculari et reniformi nigris remotis, hac subelliptica, illa punctiformi, costa nigro punctata; posticæ guttis quatuor nigris.*

Male. White. Palpi slender, vertical; third joint lanceolate much more than half the length of the second. Fore tibiæ with

black bands. Abdomen with a black dot on each side near the base. Wings with two almost obsolete angular testaceous lines. Fore wings with three black basal dots; a black dot towards the tip of the interior border and another by the hind part of the exterior border; orbicular and reniform marks black, remote from each other; the former punctiform; the latter subelliptical; costa with two black points in front of the reniform mark, and with three black exterior almost confluent points. Hind wings with four black dots; one discal; one apical; one by the interior angle, and one near the middle of the exterior border. Length of the body 3 lines; of the wings 7 lines.

a. Moreton Bay. From Mr. Diggles' collection.

31. Zebronia? Medusalis.

Fœm. *Alba*, S. Plexippusali *simillima; abdomen nigro bipunctatum; alæ lineis tribus flavescentibus incompletis valde indistinctis, gutta discali nigra.*

Female. White, in structure like *S. Plexippusalis*, of which it may prove to be the female. Abdomen with a black point on each side near the base. Wings with the middle, exterior and submarginal lines yellowish, incomplete, very indistinct; a black dot in each disk. Length of the body 3½ lines; of the wings 8 lines.

a. Moreton Bay. From Mr. Diggles' collection.

Country unknown.

32. Zebronia Jaguaralis.

Alba; thorax antice nigro trinotatus; abdomen apicem versus luteum, maculis duabus basalibus strigisque tribus apicalibus nigris; alæ nigro marginatæ; anticæ fasciis duabus basalibus maculisque quatuor exterioribus nigris; posticæ fasciis tribus maculaque apicali nigris.

Spilomela Jaguaralis, *Guen. Delt. et Pyral.* 283, 280.

a. ——— ? Presented by E. Doubleday, Esq.

Genus 4. PAGYDA.

Corpus gracile. Frons lanceolata, peracuta. Proboscis mediocris. Palpi breves, lati, rotundati, fimbriati, articulis indistinctis. Antennæ graciles, læves. Pedes læves, longiusculi, sat graciles, femoribus tibiisque intermediis latiusculis. Alæ sericeæ, nitentes, concolores, lituris non diversis; anticæ vix acutæ; posticæ margine interiore fimbriato.

Body slender. Front lanceolate, very acute. Proboscis moderately long. Palpi short, broad, rounded, fringed; joints indistinct. Antennæ slender, smooth, moderately long. Legs smooth, rather long and slender; middle femora and middle tibiæ rather broad; spurs long, unequal. Wings silky, shining, alike in colour, and with like markings. Fore wings oblong, hardly acute at the tips; exterior border very oblique. Hind wings with the interior border fringed.

This genus has some resemblance to the *Botydæ*.

1. Pagyda salvalis.

Flavescente-cinerea; caput cervinum; thorax ochraceo bifasciatus; alæ lineis tribus ochraceis, 1a 2aque rectis parallelis, linea marginali tenui obscuriore; anticæ lineis duabus basalibus nigris, lineis interiore et duabus exterioribus apud costam nigro signatis, linea submarginali undulata.

Yellowish cinereous. Head fawn-colour. Thorax with two orange stripes. Wings with three orange lines; first and second lines oblique, straight, parallel, marked with black by the costa in the fore wings; submarginal line undulating in the fore wings; marginal line slender, darker; fringe whitish, orange at the base. Fore wings with two basal orange lines; an oblique line between the exterior and submarginal lines, abbreviated hindward, marked with black by the costa. Length of the body 4 lines; of the wings 10 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b. Ceylon. From Mr. Stevens' collection.

Genus 5. NISTRA.

Corpus gracile. Proboscis brevis. Palpi breves, læves, ereeti; articulus 3us oblique truncatus, 2i dimidio non longior. Antennæ graciles, submoniliformes. Pedes graciles, læves; tibiæ anticæ breves, subincrassatæ, subtus carinatæ; calcaria longissima. Alæ sat angustæ; anticæ apice rectangulatæ, margine exteriore postico valde rotundato.

Body slender. Proboscis short. Palpi short, vertical, smooth; third joint short, obliquely truncated, not more than half the length of the second. Antennæ slender, submoniliform. Legs slender, smooth; fore tibiæ short, slightly thickened, grooved beneath; spurs very long. Wings rather narrow. Fore wings rectangular at the tips; exterior border hardly oblique, except towards the interior angle, near which it is much rounded.

1. NISTRA CŒLATALIS.

Pallide flava; caput fuscescens; thorax antice purpurascens; alæ lineis duabus fuscis, interiore valde interrupta, exteriore minus interrupta valde undulata; anticæ purpurascentes, apud costam fuscescentes, basi margineque exteriore purpureis; posticæ apice et apud angulum interiorem purpureis.

Pale yellow, white beneath. Head and palpi brownish. Thorax metallic purplish in front. Wings with two brown lines; interior line much interrupted, especially so in the hind wings; exterior line less interrupted, deeply undulating. Fore wings partly brownish along the costa, with a diffuse purplish tinge in the disk, metallic-purple at the base, broadly so along the exterior border, except towards the interior angle. Hind wings broadly metallic-purple about the tips, and with a metallic-purple patch on each side of the interior angle. Length of the body 3 lines; of the wings 8 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Genus 6. MASSEPHA.

Corpus gracile. Fasciculus frontalis productus. Palpi breves, subascendentes; articulus 2us apice subdilatatus; 3us linearis obtusus, 2i dimidio non longior. Antennæ læves, sat validæ. Pedes

læves, longiusculi, sat graciles; tibiæ anticæ brevissimæ, subincrassatæ, subtus sulcatæ; calcaria longissima. Alæ sat angustæ; anticæ apice acutæ subfalcatæ, margine exteriore subconvexo.

Body slender. Frontal tuft rather prominent. Palpi short, slightly ascending; second joint somewhat dilated at the tip; third linear, obtuse, not more than half the length of the second. Antennæ smooth, rather stout, moderately long. Legs smooth, rather long and slender; fore tibiæ very short, about half the length of the femora, slightly thickened, grooved beneath; spurs very long. Wings rather narrow. Fore wings acute and subfalcate at the tips; exterior border slightly convex, moderately oblique.

This genus has a resemblance to some of the *Geometrites*, but belongs to the *Pyralites*.

1. MASSEPHA ABSOLUTALIS.

Pallidissime lignicolor; palpi fusco trifasciati; tibiæ anticæ apices versus nigræ; tarsi nigro cincti; alæ strigulis plurimis transversis pallide fuscis, punctis marginalibus nigris; anticæ gutta costali interiore punctisque costalibus nigris; posticæ gutta nigra apud angulum interiorem.

Very pale wood-colour. Palpi with three brown bands. Fore tibiæ black towards the tips. Tarsi with a black ring at the tip of each joint. Wings with very numerous minute transverse pale brown marks; exterior border with black points. Fore wings with a black dot in the interior part of the disk; costa with black points. Hind wings with a black dot at the end of the interior border. Length of the body 4 lines; of the wings 10 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Fam. 7. MARGARODIDÆ.

Corpus sæpissime robustum. Caput sat latum; frons subarcuata. Oculi magni. Proboscis longa, robusta. Palpi porrecti, lati, rotundati, compressi, bicolores; articulus 3us brevissimus. Antennæ longæ, graciles, nonnunquam pubescentes. Thorax oblongus. Abdomen alas posticas superans. Pedes læves. Alæ integræ, amplæ, sericeæ, semihyalinæ, iridescentes aut opalinæ, sæpissime lituris nullis; anticæ acutæ; posticæ apud angulum

interiorem sæpissime subelongatæ. *Mas.*—Abdomen fasciculo apicali sæpe bifido.

Margarodidæ, *Guen. Delt. et Pyral.* 286.

Body generally robust. Head somewhat broad; front slightly arched. Eyes large. Proboscis long, stout. Palpi porrect, broad, rounded, compressed, of two colours; third joint very short, partly concealed by the second. Antennæ long, slender, in some cases pubescent. Thorax oblong. Abdomen extending beyond the hind wings. Legs smooth, not thickened. Wings entire, ample, silky, semihyaline, iridescent or pearly, often bordered, most often without markings. Fore wings acute. Hind wings with the interior angle most often slightly elongated. *Male.*—Abdomen with an apical tuft, which is often bifid.

A. Corpus non gracillimum.
A. Pedes non longissimi.
a. Abdomen albo non maculatum.
a. Alæ maculatæ aut fasciatæ.
i. Palpi ad frontem applicati. - 3. Lypotigris, *Hübn.*
ii. Palpi ad frontem non applicati.
* Thorax vittatus.
† Antennæ non incrassatæ. 4. Glyphodes, *Guen.*
†† Antennæ maris incrassatæ. 5. Dausara, *Walk.*
** Thorax non vittatus.
† Alæ anticæ non obscuræ.
‡ Alæ lituris pallidis. 1. Leucochroma, *Guen.*
‡‡ Alæ lituris nigris.
§ Antennæ non moniliformes.
+ Antennæ graciles.
2. Conchylodes, *Guen.*
++ Antennæ robustæ.
16. Arochis, *Walk.*
§§ Antennæ submoniliformes.
17. Caprinia, *Walk.*
†† Alæ anticæ obscuræ.
‡ Alæ posticæ non truncatæ.
§ Palpi articulis indistinctis.
8. Cliniodes, *Guen.*
§§ Palpi articulis distinctis.
14. Maruea, *Walk.*
‡‡ Alæ posticæ truncatæ. 15. Eporedia, *Walk.*
b. Alæ non maculatæ nec fasciatæ.
i. Alæ marginatæ.

* Alæ semihyalinæ. - 6. PHAKELLURA, *L. Guild.*
† Alæ anticæ productæ.
†† Anticæ non productæ. - 7. TOBATA, *Walk.*
** Alæ opacæ. - - - 11. CHROMODES, *Guen.*
ii. Alæ non marginatæ.
* Corpus robustum. - - 9. MARGARODES, *Guen.*
** Corpus gracile. - - 10. HOTERODES, *Guen.*
b. Abdomen albo maculatum. - - 12. PYGOSPILA, *Guen.*
B. Pedes longissimi. - - - 13. EUGLYPHIS, *Guen.*
B. Corpus gracillimum. - - - 18. ILURGIA, *Walk.*

Genus 1. LEUCOCHROMA.

Corpus vix robustum. Probuscis valde conspicua. Palpi valde compressi, oculos non superantes; articulus 2us latus, trigonus; 3us non conspicuus. Palpi maxillares parvi, intermedii. Antennæ graciles, setaceæ, cylindricæ. Thorax oblongus, antice attenuatus. Abdomen tumidum, apiee acutum et villosum. Pedes læves, sat graciles, non longi, calcaribus longissimis. Alæ integræ, semihyalinæ, concolores, maculatæ, non lineatæ.

Epipagis, p., *Hübn. Verz. Schm.* 357.
Leucochroma, *Guen. Delt. et Pyral.* 286.

Body hardly stout. Proboscis very apparent, separating the palpi. Palpi much compressed, not extending beyond the eyes; second joint broad, triangular; third not visible. Maxillary palpi small, placed between the labial palpi, slightly curved on the proboscis. Antennæ setaceous, cylindrical, slender. Thorax oblong, forming a neck. Abdomen tumid, cylindric-conical, terminating in a villose point, which rises obliquely above the anus. Legs smooth, rather slender, not long; spurs very long. Wings entire, semihyaline, spotted, not banded, alike in colour and with like markings.

1. LEUCOCHROMA SPLENDIDALIS.

Alba; palpi lutei; thorax luteo fasciatus; abdominis latera luteo maculata; alæ albæ, semihyalinæ, iridescentes, fasciis quinque luteis nigricante submarginatis, fasciis 1a, 2a, 3a*que interruptis.*

Phalæna-Pyralis splendidalis, **Cram. Pap. Exot.* iv. 161, pl. 371, f. L.
Leucochroma splendidalis, *Guen. Delt. et Pyral.* 287, 285.

Epipagis splendidalis, *Hübn. Verz. Schm.* 358, 3428.
Leucochroma splendidalis, *Guen. Delt. et Pyral.* 287, 285.

Surinam. Cayenne.

a—e. St. Domingo. From Mr. Tweedie's collection.
f—h. Honduras. From Mr. Miller's collection.

2. Leucochroma Coropealis.

Alba; alæ fasciis interiore et submarginali luteis; anticæ fascia interiore interrupta, fasciæ exteriore lutea interrupta, striga basali lutea; posticæ macula marginali lutea.

Phalæna-Pyralis Corope, *Cram. Pap. Exot.* iv. 130, pl. 357, f. I.
Epipagis Corrivalis, *Hübn. Verz. Schm.* 358, 3427.
Leucochroma Coropealis, *Guen. Delt. et Pyral.* 287, 286.

Surinam.

3. Leucochroma Melusinalis.

Alba; palpi luteo fasciati; thorax luteo bifasciatus; tibiæ anticæ luteo bicinctæ; alæ semihyalinæ, iridescentes; anticæ luteo sex lineatæ, linea submarginali abbreviata, orbiculari et reniformi magnis luteis, punctis tribus marginalibus; posticæ linea 3a annulum fingente, 4a valde abbreviata.

White. First joint of the palpi with two luteous bands; second luteous at the tip. Thorax with two luteous bands. Fore tibiæ with two luteous rings. Wings semihyaline, iridescent, with four irregular luteous lines; marginal line darker, slender. Fore wings with luteous basal and submarginal lines; the latter abbreviated hindward; orbicular and reniform marks large, luteous; three black points along the fore part of the exterior border. Hind wings with the third line forming an irregular ringlet; fourth line much abbreviated hindward. Length of the body 4 lines; of the wings 11 lines.

a. Venezuela. From Mr. Dyson's collection.

4. Leucochroma? Tolumnialis.

Mas. *Lutea; caput fuscescens; palporum articulus 2us subtus pilosissimus; 3us conicus, minimus; palpi maxillares distincti; alæ albæ, semihyalinæ; anticæ vittis duabus posticis fasciisque duabus exterioribus luteis, linea basali plagisque*

duabus exterioribus costalibus fuscis; posticæ striga brevi obliqua lutea fusco nebulosa, plaga submarginali lutea, guttis duabus marginalibus atris aureo punctatis.

Male. Luteous, white beneath. Head brownish. Thorax brownish on each side in front. Second joint of the palpi very pilose beneath; third conical, very small. Maxillary palpi distinct. Wings white, semihyaline. Fore wings with two luteous stripes, which are united at the base and towards the end of the exterior border, where they join two luteous bands, which towards the costa are lost in a brown patch; marginal line luteous; costa brownish from the base to one-third of the length, beyond which it emits to the disk a triangular brown patch, the latter including a vitreous line. Hind wings with a short oblique luteous brown-shaded streak in the hind part of the disk, approaching a luteous submarginal patch; the latter pale yellow on the inner side, brownish on the outer side, where it joins two deep black gold-spangled dots. Length of the body 4—5 lines; of the wings 10—12 lines.

a. Sydney. From Mr. Lambert's collection.
b. New South Wales. From Mr. Wood's collection.

Genus 2. CONCHYLODES.

Corpus robustum. Palpi squamoso-læves, recurvi, frontem vix superantes; articulus 2us bicolor, latus, rotundatus; 3us vix conspicuus. Antennæ mediocres. Thorax et abdomen nigro maculata. Pedes longi, sat validi. Alæ integræ, albæ, opalinæ, lituris nigris, fimbria interlineata. *Mas.*—Antennæ strenuæ, pubescentes. Abdomen elongatum, apice obtusum. Tibiæ intermediæ tumidæ, *sericeo* pilosæ. *Fœm.*—Abdomen crassum, tumidum, fasciculo apicali trifido.

Lypotygris, *Geyer.*
Conchylodes, *Guen. Delt. et Pyral.* 288.

Body robust. Palpi smoothly squamous, recurved on the proboscis, hardly extending beyond the front; second joint broad, rounded, of two colours; third hardly visible. Antennæ moderately long. Thorax and abdomen with black spots. Legs long, rather stout. Wings entire, white, pearly, with black markings, which are much less numerous on the hind wings; fringe interlined. *Male.*—Antennæ stout, pubescent. Abdomen elongated, obtuse at the tip, with no apical tuft. Middle tibiæ tumid, forming a case which

contains silky hairs. *Female.*—Abdomen thick, tumid; apical tuft trifid.

1. CONCHYLODES DIPHTERALIS.

Mas. *Alba, nigro maculata; alæ semihyalinæ, iridescentes; anticæ maculis costalibus et apicalibus fasciaque media alboguttata nigris; posticæ apicibus et marginibus posticis nigro maculatis.*

Lypotigris diphteralis (Pyralis vulgaris, Elophila strigata), *Geyer, Zutr. Samml. Exot. Schmett.* 24, 346, f. 691, 692.
Conchylodes diphteralis, *Guen. Delt. et Pyral.* 288, 287.

a. Jamaica. From Mr. Gosse's collection.
b, c. St. Domingo. From Mr. Tweedie's collection.

The three specimens above-mentioned agree partly with the characters of *C. diphteralis*, partly with those of *C. hebræalis*, and these two may be one species.

2. CONCHYLODES HEBRÆALIS.

Fœm. C. diphterali *simillima, paullo major; frons et palpi pallide viridescentes; abdominis segmenta omnia nigro maculata; alæ anticæ macula 2a costali punctum album includente, fascia 2a bipunctata, annulo majore, annulo 2o posteriore contiguo, macula 3a costali lineam integram angulosam fingente, fascia submarginali angustiore angulum interiorem non attingente; posticæ macula apicali nulla.*

Conchylodes hebræalis, *Guen. Delt. et Pyral.* 288, 288.

Haiti.

Genus 3. LYPOTIGRIS.

Corpus robustum, læve. Proboscis sat longa. Palpi validi, squamosi, ascendentes, arcuati, frontem paullo superantes; articulus 3us minimus. Palpi maxillares obsoleti. Antennæ longæ, setaceæ. Abdomen conicum, acutum, alas posticas sat superans. Pedes longi, graciles, læves; calcaria valida. Alæ valde iridescentes; anticæ elongatæ, subacutæ, margine exteriore perobliquo.

Lypotigris, *Hübn. Verz. Schm.* 361.
Hyalitis sp., *Guen. Delt. et Pyral.* 289.

Body stout, smooth. Proboscis moderately long. Palpi stout, squamous, ascending, curved, rising a little above the front; third joint very minute. Maxillary palpi obsolete. Antennæ long, setaceous. Abdomen conical, acute, extending rather far beyond the hind wings. Legs long, slender, smooth; spurs stout. Wings very iridescent. Fore wings elongated, slightly acute, very oblique along the exterior border.

Lypotigris reginalis may be considered as the type of this genus; the two following species should probably be removed to other genera.

1. Lypotigris reginalis.

Alba; caput nigro maculatum; thorax nigro vittatus; abdomen nigro fasciatum; alæ anticæ nigræ, cyaneo purpureoque micantes, albo quadrifasciatæ; posticæ albæ, semihyalinæ, nigro marginatæ.

Phalæna-Pyralis reginalis, *Cram. Pap. Exot.* iv. 163, pl. 372, f. C.

Lypotigris reginalis, *Hübn. Verz. Schm.* 361, 3455.

Hyalitis reginalis, *Guen. Delt. et Pyral.* 290, 189.

Surinam.

a, b. St. Domingo. From Mr. Tweedie's collection.

2. Lypotigris? bajulalis.

Mas et fœm. *Nigra; thoracis tegulæ longæ; alæ violaceo-nigri-cantes, maculis hyalinis læte opalino-azureis; anticæ maculis duabus magnis elongatis transversis, maculis aut fasciolis duabus basalibus fere contiguis; posticæ disco late hyalino lunulam discalem nigram includente, macula submarginali hyalina, fimbria nigra postice alba.*

Hyalitis bajulalis, *Guen. Delt. et Pyral.* 291, 294.

Cayenne.

3. LYPOTIGRIS? HELICONIALIS.

Fœm. *Nigra; thoracis tegulæ albæ; abdomen albo cinctum; alæ anticæ albæ, opalinæ, semihyalinæ, nigro marginatæ; anticæ margine nigro interlineato, fascia lata cuneiformi angulum interiorem non attingente.*

Hyalitis heliconialis, *Guen. Delt. et Pyral.* 292, 295.

Brazil?

Genus 4. GLYPHODES.

Corpus robustum, vittatum. Frons plana. Proboscis brevis. Palpi breves, compressi, rotundati; articulus 2us latissimus; 3us indistinctus. Palpi maxillares graciles, læves, apice recurvi. Abdomen alas posticas paullo superans. Pedes glabri, sat graciles, calcaribus longis. Alæ læves, nitentes, lituris non diversis; anticæ opacæ, fasciis aut plagis vitreis; posticæ sæpissime vitreæ, margine opaco. *Mas.*—Antennæ subpubescentes. Abdomen fasciculo apicali bifido.

Glyphodes, *Guen. Delt. et Pyral.* 292.

Body stout, striped. Front flattened. Proboscis short. Palpi short, compressed, rounded, squamous-hirsute; second joint very broad; third indistinct. Maxillary palpi slender, smooth, truncated or recurved at the tips. Antennæ moderately long, minutely pubescent in the male. Abdomen extending a little beyond the hind wings, with a bifid apical tuft in the male. Legs smooth, rather slender, moderately long; spurs long. Wings smooth, shining, with like markings. Fore wings opaque, with vitreous bands or patches. Hind wings generally vitreous, with opaque borders.

Type, *G. stolalis.*

Asia.

A. Alæ anticæ fasciis albo hyalinis.
  A. Alæ anticæ ochraceo variæ.
    a. Alæ anticæ fasciis tribus albo hyalinis. stolalis, *Guen.*
    b. Alæ anticæ fasciis duabus albo hyalinis. bivitralis, *Guen.*
  B. Alæ anticæ ochraceo non variæ.
    a. Alæ posticæ fascia marginali nigro marginata.
diurnalis, *Guen.*

B. Alæ posticæ fascia marginali nigro non marginata.
Actorionalis, *Walk.*

B. Alæ anticæ lituris nullis albo hyalinis.
A. Alæ anticæ fuscæ. - - - - calidalis, *Guen.*
B. Alæ anticæ non fuscæ.
A. Alæ maculis nullis marginalibus albis. - cæsalis, *Walk.*
B. Alæ maculis marginalibus albis. - univocalis, *Walk.*

1. Glyphodes stolalis.

Fusca, albido vittata, subtus alba; palpi testaceo notati; abdomen apicem versus luteum, apice nigrum; pedes fusco et testaceo notati; alæ anticæ testaceæ, lineis deviis nigricantibus, lineis duabus basalibus albidis, fasciis duabus, lituris duabus intermediis maculaque trigona costali exteriore vitreis iridescentibus; posticæ vitreæ, apud marginem exteriorem testaceæ nigricante lineatæ, linea discali fusca non obliqua.

Glyphodes stolalis, *Guen. Delt et Pyral.* 293, 296.

a—*c*. North Hindostan. From Mr. Stevens' collection.
d. North Hindostan. Presented by — Gibbons, Esq.
e. Nepaul. Presented by E. Doubleday, Esq.

2. Glyphodes bivitralis.

Ochracea, subtus alba; thoracis tegulæ albæ, basi ochraceæ; abdomen lateribus anticis albis, fasciculo apicali nigro; alæ linea exteriore lineaque diffusa submarginali nigricantibus; anticæ maculis duabus (exteriore maxima) vitreis nigro marginatis; posticæ vitreæ, ochraceo marginatæ, fimbria apice alba.

Glyphodes bivitralis, *Guen. Delt. et Pyral.* 293, 298.

a. Hindostan. From Archdeacon Clerk's collection.
b. ——— ?

3. Glyphodes calidalis.

Ochracea; palpi dimidio apicali nigro; antennæ apice albæ; pedes flavi; tibiæ anticæ apice nigræ; alæ violaceo-fuscæ; anticæ basi ochraceæ striga transversa nigra, macula magna antica rotundata aurato-flava ochraceo tincta, strigula costali ochracea, fimbria albida nigro notata; posticæ aurato-flavæ, semihyalinæ, basi ochraceæ, nigro late marginatæ.

Glyphodes calidalis, *Guen. Delt. et Pyral.* 294, 299.
Coromandel.

4. GLYPHODES DIURNALIS.

Cinereo-fusca; subtus alba; thoracis abdominisque latera alba; alæ linea exteriore obliqua nigricante; anticæ maculis duabus discalibus (exteriore maxima) albo-vitreis, linea exteriore apud costam et apud marginem interiorem albo marginata; posticæ albo-vitreæ, cinereo-fusco late marginatæ.

Glyphodes diurnalis, *Guen. Delt. et Pyral.* 294, 300.

a. Ceylon. Presented by R. Templeton, Esq.
b, c. Ceylon. From Mr. Stevens' collection.
d. Punjaub. Presented by General Hearsay.
e—g. North Hindostan. From Mr. Stevens' collection.
h. Nepaul. Presented by E. Doubleday, Esq.
i. Celebes. From Mr. Wallace's collection.

5. GLYPHODES ACTORIONALIS.

Mas. *Alba; caput supra fuscum; thorax fuscus, albo bivittatus; abdomen vitta dorsali fusca; pedes antici fusci; alæ anticæ fuscæ, margine interiore albo, maculis tribus albis semihyalinis, 1a obliqua, 2a magna elliptica, 3a trigona costali subapicali; posticæ albæ, semihyalinæ, fusco late marginatæ, fimbria alba.*

Male. White. Disk of the head brown. Palpi brown above. Thorax brown, with two white diverging stripes. Abdomen with a dorsal brown stripe, extending far beyond the hind wings. Fore legs brown. Fore wings brown, white along the interior border for more than half the length, and with three white semihyaline transverse marks; the first oblique, much smaller than the second, which is upright and elliptical; third triangular, costal, subapical. Hind wings white, semihyaline, with a broad brown border, which is narrower hindward; fringe white. Length of the body 8 lines; of the wings 16 lines.

a. North Hindostan. From Mr. James' collection.
b. Celebes. From Madame Ida Pfeiffer's collection.

6. Glyphodes cæsalis.

Mas. *Lutea; caput fusco uniguttatum; palpi extus nigricantes luteo notati; antennæ subpubescentes; thorax vittis quatuor fuscis plus minusve interruptis; abdomen vittis quatuor fuscis postice abbreviatis, fasciculo apicali nigro; alæ spatio marginali fusco variæ, linea marginali fusca; anticæ plus minusve hyalinæ et iridescentes, fasciis quatuor luteis deviis fusco marginatis; posticæ lineis duabus fuscis, 1a postice abbreviata, 2a plus minusve duplicata.*

Male. Testaceous, whitish beneath. Head with a brown dot between the antennæ. Palpi blackish, and with a luteous mark on the outer side. Antennæ minutely pubescent. Thorax with four more or less interrupted brown stripes. Abdomen with four brown stripes, which extend from the base to beyond the middle; apical tuft black. Fore wings with four irregular luteous brown-bordered bands; the intermediate spaces more or less hyaline and iridescent, that between the second and third bands including a brown point; submarginal space irregularly varied with brown; marginal line brown. Hind wings somewhat hyaline and iridescent, like the fore wings towards the exterior border; two brown lines; the first abbreviated hindward; the second more or less double. Length of the body 5—6 lines; of the wings 14—16 lines

a. Ceylon. Presented by R. Templeton, Esq.
b. Hindostan. From Archdeacon Clerk's collection.

7. Glyphodes univocalis.

Fœm. *Alba, ochraceo pallido varia; alæ semihyalinæ, iridescentes, spatio submarginali obscure ochraceo maculis variis albis, linea marginali obscure fusca; anticæ lineis quatuor deviis incompletis pallide ochraceis obscure marginatis, linea transversa inter fascias 1am et 2am, fascia 3a postice abbreviata, 4a apud discum alba semihyalina; posticæ lineis duabus antice furcatis.*

Female. White, varied with pale ochraceous. Antennæ rather long. Wings semihyaline, iridescent; submarginal space dark ochraceous, with various white blotches; marginal line dark brown. Fore wings with four irregular and incomplete pale ochraceous bands, bordered with dark ochraceous; first band basal, having

a pale and dark ochraceous line between it and the second band; third band abbreviated hindward, but with its dark lines diverging to the interior border; disk of the fourth band white and semihyaline. Hind wings with two dark ochraceous pale-bordered lines, forked in front, where the first includes a pale ochraceous mark. Length of the body 3½ lines; of the wings 9 lines.

a. Ceylon. From Mr. Stevens' collection.

Australasia.

A. Alæ anticæ fasciis rufis. - - - Crameralis, *Guen.*
B. Alæ anticæ fasciis nullis rufis.
A. Alæ posticæ smaragdino non marginatæ.
a. Alæ anticæ margine interiore non late albo.
a. Corpus ochraceo non vittatum.
i. Alæ anticæ basi albæ. - - Orionalis, *Walk.*
ii. Alæ anticæ basi non albæ. - - Itysalis, *Walk.*?
b. Corpus ochraceo vittatum aut ochraceum.
i. Abdomen albo non maculatum.
* Alæ margine exteriore non ochraceo.
† Alæ anticæ fascia integra. - Zelimalis, *Walk.*
†† Alæ anticæ fascia nulla integra. Terealis, *Walk.*
** Alæ margine exteriore ochraceo. Zangisalis, *Walk.*
ii. Abdomen albo maculatum. - Canthusalis, *Walk.*
B. Alæ anticæ margine interiore late albo. Eurytusalis, *Walk.*
B. Alæ posticæ smaragdino marginatæ. - Sabacusalis, *Walk.*

8. Glyphodes Crameralis.

Nigricans; alæ vitreæ, nigricante latissime marginatæ; anticæ fasciis quinque rufis nigricante marginatis, 4a 5aque postice connexis; posticæ fascia nigricante non obliqua, fasciis duabus exterioribus obliquis rufis.

Glyphodes Crameralis, *Guen. Delt. et Pyral.* 293, 297.
Phalæna-Pyralis Margaritaria, *Cram. Pap. Exot.* iv. 150, pl. 367, f. K.

Amboina.

9. GLYPHODES ORIONALIS.

Mas. *Fusca, subtus alba; caput album; palpi porrecti, caput longe superantes; antennæ strenuæ, basi albæ; thorax et abdomen anticum albo bivittata; alæ cupreo purpureoque nitentes; anticæ basi flavescente-albæ; fascia obliqua alba semihyalina extus nigricante marginata antice dilatata, costam non attingente, macula subcostali et costa fuscis; posticæ basi fasciaque albis semihyalinis.*

Male. Brown, white beneath. Head mostly white above. Palpi porrect, extending far beyond the head. Maxillary palpi distinct. Antennæ stout, white at the base. Thorax with two lateral white stripes, which extend along part of the abdomen; the latter extending very little beyond the hind wings. Wings with purple and cupreous reflections. Fore wings yellowish white at the base, except along the costa, and with an oblique white semihyaline purple-tinged band, which is bordered with blackish on the outer side, is widened in front, and does not extend to the costa, near which it half includes a brown subcostal spot, the latter being connected with the brown costa. Hind wings white and semihyaline at the base, and with the band continued from the fore wings nearly to the interior angle. Length of the body 4 lines; of the wings 10 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

10. GLYPHODES ITYSALIS.

Mas. *Fusca, subtus alba; caput albido-testaceum; palporum articulus 2us extus testaceo maculatus; thorax albo vittatus; abdomen fasciculo apicali nigro; alæ linea exteriore obliqua alba fusco marginata, fascia adhuc exteriore purpurea, spatio marginali cupreo-fusco, fimbria alba; anticæ fasciis duabus albis semihyalinis postice approximatis, lineola alba strigaque azurea intermediis, linea interiore arcuata margineque interiore albis; posticæ usque ad lineam exteriorem albæ semihyalinæ.*

Male. Brown, white beneath. Head mostly whitish testaceous. Palpi brown above; second joint with a testaceous spot on the outer side. Antennæ with the first joint white and incrassated. Thorax with two white stripes. Abdomen with an apical black tuft. Wings with an oblique exterior white line bordered

with brown and adjoining a more exterior purple band; marginal space cupreous-brown; fringe white, blackish about the tips of the fore wings and towards the interior angle of the hind wings. Fore wings with two white semihyaline bands which converge hindward; an interior curved white line, and a short hindward white line between the bands, and preceded by a blue streak; interior border irregularly white. Hind wings white and semihyaline from the base to the exterior white line. Length of the body 6 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

11. Glyphodes Zelimalis.

Fœm. *Cinerea; caput fusco bivittatum; palpi fusci; articulus 2us extus luteo notatus; thorax luteo sexvittatus; abdomen luteo bivittatum; alæ albæ, semihyalinæ, valde iridescentes, fasciis exteriore, submarginali et marginali subochraceis, 1ª pallido fuscoque extus marginata, spatio exteriore purpureo; anticæ spatio basali oblique subochraceo lineam pallidam includente, fascia media ochracea fusco marginata vix obliqua lineam pallidam includente; posticæ linea discali ochracea lineaque ochracea apud angulum interiorem lineolam pallidam includente.*

Female. Cinereous, white beneath. Head with two brown stripes. Palpi brown; second joint with a luteous mark on the outer side. Thorax with six luteous stripes; the outermost pair continued obliquely on each fore wing. Abdomen with two luteous stripes. Wings white, semihyaline, very iridescent; exterior, submarginal and marginal bands dull ochraceous; the first bordered with pale and with brown on the outer side, and having a purple space between it on the submarginal band. Fore wings with the basal space, excepting the disk, obliquely dull ochraceous, including a pale oblique line; a middle hardly oblique brown-bordered dull ochraceous band, including in its fore part a short pale line, and joining the exterior band by the interior border. Hind wings with an ochraceous line in the disk, and near the interior angle another which includes a pale line. Length of the body 6 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

12. Glyphodes Terealis.

Mas. *Fusca; caput testaceum; palpi extus fusco notati; antennæ valde pubescentes; abdomen cinereum; alæ purpureo suffusæ, linea exteriore albida vix arcuata, fimbria alba basi fusca, linea marginali cinerea; anticæ basi albidæ, macula postica trigona elongata alba, lineis duabus obliquis albis, 2a antice abbreviata, maculis duabus albis semihyalinis magnis transversis subellipticis, gutta costali alba; posticæ fascia maculaque antica magna subquadrata albis semihyalinis, fascia abbreviata flavescente-alba.*

Male. Brown, white beneath. Head testaceous. Palpi marked with brown on the outer side. Antennæ very pubescent. Abdomen cinereous. Wings tinged with bright purple, with an exterior whitish hardly curved line; fringe white, brown towards the base, where there is a slender cinereous line. Fore wings whitish at the base, near which there is an elongated white triangular spot resting on the interior border; two oblique whitish lines; one interior and complete; the other apparent only towards the interior border; two large transverse irregularly elliptical white semihyaline spots; the first between the two lines above-mentioned, smaller than the second; costa with a white dot forming the end of the exterior line. Hind wings with a white semihyaline band extending to the interior angle, and with a large exterior subquadrate white semihyaline spot on the fore part; a yellowish white band beyond the exterior whitish line, abbreviated at each end. Length of the body 6 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

13. Glyphodes Eurytusalis.

Fœm. *Alba, vitta dorsali fusca; caput antice testaceum fusco vittatum; thoracis latera fusco vittata; alæ albæ, semihyalinæ, fascia marginali lata fusca lineam pallidam includente; anticæ vitta costali fusca extus flexa et fasciam marginalem attingente, reniformi e striga obliqua smaragdina.*

Female. White. Head testaceous and striped with brown in front. Palpi brown. Head and thorax with a broad dorsal stripe. Thorax with a brown stripe on each side in front of the fore wings. Wings white, semihyaline, very iridescent, with a broad brown marginal band, which is darker along its interior side

and there includes a pale line. Fore wings with a brown costal stripe which extends from the base to much beyond the middle, and there is bent obliquely to the marginal band, and includes an emerald-green oblique streak, which represents the reniform mark. Length of the body 6½ lines; of the wings 17 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

14. Glyphodes Sabaousalis.

Fœm. *Alba; caput fuscum; thorax lineis duabus lateralibus fuscis; pedes antici fusci; alæ semihyalinæ, purpureo micantes; anticæ fascia ochracea vix obliqua postice abbreviata lineam cæruleam includente, fascia exteriore obliqua ochracea, fasciis submarginali et marginali pallide flavis; posticæ striga discali obliqua fusca, plaga subquadrata pallide flava, linea marginali smaragdina nigro punctata.*

Female. White. Head and palpi brown; the former white hindward. Thorax with a brown line on each side in front of the fore wings. Abdomen hardly extending beyond the hind wings. Fore legs brown. Wings semihyaline, with purple reflections. Fore wings with an ochraceous hardly oblique band, which includes a blue iridescent line and does not extend to the interior border; a more exterior ochraceous band converging towards the first hindward; a pale yellow submarginal band which widens hindward, and a pale yellow marginal band; costa with two black points; one apical; the other subapical. Hind wings with an oblique brown discal streak, which is pale yellow in front and has an azure tint between it and a subquadrate pale yellow patch; the latter adorned with a marginal emerald black-pointed line. Length of the body 5 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

15. Glyphodes Zangisalis.

Mas. *Alba; palpi extus fusci; antennæ dimidio basali subincrassato, triente basali pilosa; thorax luteo sexvittatus; abdomen luteo bivittatum, fasciculo apicali fuscescente; alæ anticæ fasciis septem luteis fusco marginatis, 3a 4aque apud costam conjunctis, vittis duabus flavis, vitta brevi postica basali lutea fusco marginata; posticæ linea discali interiore fusca furcata, fasciis tribus exterioribus luteis fusco marginatis.*

Male. White. Palpi brown on the outer side. Antennæ pilose above for one-third of the length, slightly incrassated from the base to half the length, convoluted from thence to the tips. Thorax with six luteous stripes; the outermost pair terminating on the basal costa of the fore wings. Abdomen with two luteous stripes; apical tuft brownish. Fore wings with seven luteous brown-bordered bands, and with two yellow stripes, which are nearly parallel to the interior border, and are continued from the outermost stripes of the thorax; bands mostly converging hindward; third and fourth united on the costa; a luteous brown-bordered stripe along the basal part of the interior border. Hind wings with a brown forked line in the interior part of the disk, and with three exterior luteous brown-bordered bands. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

16. Glyphodes Canthusalis.

Mas. *Ochracea; caput album, ochraceo fasciatum; antennæ subpubescentes, longiusculæ; abdomen e maculis albis trivittatum, fasciculo apicali parvo fuscescente; alæ flavescente-albæ ochraceo variæ, linea marginali fusca, macula magna transversa alba semihyalina fusco marginata; anticæ macula magna exteriore transversa alba semihyalina fusco marginata, margine interiore fimbriato.*

Male. Ochraceous, white beneath. Head white, with an ochraceous band between the eyes. Palpi ochraceous. Antennæ minutely pubescent, nearly as long as the body. Abdomen extending a little beyond the hind wings, with three rows of white dorsal spots, and with a small recurved brownish apical tuft. Wings irregularly ochraceous on a yellowish whitish ground; marginal line brown; a large transverse white semihyaline brown-bordered spot on each wing. Fore wings with a large exterior transverse white semihyaline brown-bordered spot; interior border fringed, wholly pale yellow. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

West Indies.

17. Glyphodes Sibillalis.

Mas et fœm. *Ochracea; palpi fuscescentes; articulus 2us ochraceo binotatus; thorax et abdomen vittis duabus deviis albis fusco marginatis; alæ anticæ fasciis duabus latis subvitreis fusco marginatis, basi fasciis interiore et submarginali maculisque apud marginem interiorem albis fusco marginatis; posticæ subvitreæ, fascia lata marginali ochracea fusco varia intus nigro marginata, lineola discali liturisque apud marginem interiorem nigris.*

Male and female. Ochraceous, white beneath. Palpi brownish; second joint with two ochraceous marks on the outer side. Thorax and abdomen with two irregular brown-bordered white stripes. Abdomen with a black apical tuft. Fore wings with the base, some spots along the interior border, and with an interior and a submarginal band white, brown-bordered; the two bands irregular and incomplete; two large nearly vitreous brown-bordered bands; the outer one abbreviated; marginal line whitish, irregular, brown-bordered. Hind wings nearly vitreous, with a broad ochraceous partly brown-tinged border, which is bordered with black on the inner side; a blackish discal streak and some blackish marks along the interior border. Length of the body 6 lines; of the wings 14—16 lines.

a. St. Domingo. From Mr. Tweedie's collection.
b, c. Venezuela. From Mr. Dyson's collection.
c. Ega. From Mr. Bates' collection.

South America.

18. Glyphodes? Tedealis.

Rufa; abdomen testaceum; alæ anticæ falcatæ, gutta discali basali plagisque duabus exterioribus discalibus vitreis, margine exteriore subflexo; posticæ obscuriores, plagis duabus vitreis.

Phalæna-Pyralis Tedea, *Cram. Pap. Exot.* iv. 48, pl. 312, f. G.
Surinam.

19. GLYPHODES ?? TEMIRALIS.

Saturate rufa; alæ anticæ lineis obscurioribus, gutta discali basali, litura e maculis duabus connexis lituraque exteriore e maculis duabus guttisque duabus albo-vitreis, fimbria alba nigro notata; posticæ nigricantes, lineola maculaque basalibus, plaga ochracea lunulam albam includente, fimbria albida.

Phalæna-Pyralis Temira, *Cram. Pap. Exot.* iv. 160, pl. 371, f. E.

Surinam.

Genus 5. DAUSARA.

Mas. Corpus sat robustum. Proboscis brevis. Palpi breves lati, compressi angulati; articulus 2us apice fasciculatus; 3us lanceolatus, decumbens, 2i dimidio longior, fasciculo apicali furcato. Palpi maxillares porrecti, pilosi, acuminati. Antennæ incrassatæ, prismaticæ, longiusculæ; articulus 1us tumidus. Abdomen filis duobus apicalibus subarcuatis. Pedes validi, vix pilosi; antici dense fasciculati.

Male. Body moderately stout. Proboscis short. Palpi short, compressed, broad; second joint with an apical tuft, which extends far beyond the insertion of the third; third lanceolate, decumbent, with a forked apical tuft, forming a nearly right angle with the second, of which it is more than half the length. Maxillary palpi porrect, pilose, acuminated. Antennæ prismatic, rather long, incrassated, except towards the tips; first joint tumid. Abdomen extending a little beyond the hind wings; two filaments from the under side of the tip, and slightly curved upward. Legs stout, hardly pilose; spurs long; fore legs densely tufted. Wings much like those of *Glyphodes.*

1. DAUSARA TALLIUSALIS.

Mas. *Flavescente-alba; caput fusco notatum; antennæ fuscæ, subtus rufescentes; articulus 1us albus fusco notatus; thorax et abdomen vitta dorsali lata fusca; pedes antici nigricante pilosi; alæ flavescente-albæ, semihyalinæ; anticæ costa, fascia, plaga costali dimidioque exteriore purpureo aut cupreo-fuscis, linea intermedia undulata nigra, litura costali pallida; posticæ linea non obliqua, fascia marginali lata purpurascente nigro marginata.*

Male. Yellowish white. Head marked with brown. Palpi mostly brown. Antennæ brown, reddish beneath; first joint white; marked with brown. Thorax and abdomen with a broad brown dorsal stripe. Fore legs with the hairs mostly blackish. Fore wings purplish or cupreous-brown; more than half the basal space, except along the costa, yellowish white, semihyaline, including a band which is attenuated hindward, and an exterior rudimentary band which does not extend far from the costa; a black undulating line bordering the dark part and adjoining a pale costal mark. Hind wings yellowish white, semihyaline, broadly purplish along the exterior border, and with a black undulating line between the two colours; an interior upright line which forms an interrupted continuation of the band of the fore wings. Length of the body 7 lines; of the wings 15 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Printed by E. Newman, 9, Devonshire Street, Bishopsgate.

LIST

OF THE

SPECIMENS

OF

LEPIDOPTEROUS INSECTS

IN

THE COLLECTON

OF THE

BRITISH MUSEUM.

BY

FRANCIS WALKER, F.L.S., &c.

PART XVIII.—PYRALIDES.

PRINTED BY ORDER OF THE TRUSTEES.
LONDON, 1859.

CATALOGUE

OF

LEPIDOPTERA HETEROCERA.

FOURTH SERIES.

Genus 6. PHAKELLURA.

Corpus sat robustum. Proboscis mediocris. Palpi ascendentes, lati, compressi, pilosi; articulus 3us brevissimus. Antennæ simplices, nudæ. Abdomen subcylindricum, alas posticas superans. Pedes longi, graciles, glabri, calcaribus vix longis. Alæ lanceolatæ, albæ, semihyalinæ, sat angustæ, margine lato obscuro opaco. *Mas.*—Abdominis fasciculus apicalis e pilis radiatis plumosis.

Phakellura, *Landsdown Guilding, Trans. Linn. Soc.; Guen. Delt. et Pyral.* 294.
Eudioptis et Diaphania, *Hübn. Verz. Schm.* 359.

Body rather stout. Proboscis moderately long. Palpi ascending, broad, compressed, pilose; third joint very short. Antennæ simple, bare, moderately long and stout. Abdomen nearly cylindrical, extending rather beyond the hind wings. Legs long, slender, smooth; spurs moderately long. Wings lanceolate, rather narrow, white, semihyaline, with a broad dark opaque border. *Male.*—Abdomen with a large apical tuft of diverging plumose hairs.

North America.

1. Phakellura hyalinatalis.

Alba; caput, palpi supra, thorax abdominisque fasciculus fusca; alæ semihyalinæ, iridescentes, fusco subæqualiter marginatæ; posticæ angulo interiore albo.

Phalæna-Geometra hyalinata, *Linn. Syst. Nat.* iii. 2, 873, 279. *Gmel. ed. Syst. Nat.* i. 5. 2487, 279.
Phalæna hyalinata, *Fabr. Sp. Ins.* ii. 269, 158; *Mant. Ins.* ii. 214, 247; *Ent. Syst.* iii. 2, 213, 311.
Phalæna-Pyralis marginalis, *Cram. Pap. Exot.* iv. 160, pl. 371, f. D; v. pl. 22, f. 9.
Pyralis lucernalis, *Hübn. Pyral.* 108, pl. 17, f. 108. *Haw. Lep. Brit.* 384.
Pyralis hyalinata, *Poey, Cent. Lep. Cuba.*
Diaphania lucernalis, *Steph. Syst. Cat.* 2, 164, 6804.
Eudioptis lucernalis, *Hübn. Verz. Schm.* 359, 3459. *Steph. Ill. Brit. Haust.* iv. 43.
Phakellura hyalinatalis, *Guen. Delt. et Pyral.* 296, 302.

a—*c*. St. Domingo. From Mr. Tweedie's collection.
d. St. Domingo. From Mr. Hearse's collection.
e, *f*. Brazil. From Mr. Stevens' collection.
g. Honduras. From Mr. Dyson's collection.
h. West Coast of South America. Presented by Capt. Kellett and Lieut. Wood.
i. Jamaica. From Mr. Gosse's collection.
j. Jamaica.
k—*m*. ———? Presented by J. G. Children, Esq.
n—*q*. ———?

2. Phakellura immaculalis.

Var.? *Fusca, subtus alba; alæ anticæ vitta alba semihyalina subobliqua apicem versus valde attenuata; posticæ albæ, semihyalinæ, margine latissimo fusco angulum interiorem non attingente.*

Phakellura immaculalis, *Guen. Delt. et Pyral.* 297, 303.

Guadeloupe.

a. United States. Presented by E. Doubleday, Esq.

3. PHAKELLURA NITIDALIS.

Purpurascens, subtus albida; alæ anticæ fascia flavescente-hyalina obliqua postmedia apud margines attenuata; posticæ flavescente hyalinæ, margine lato purpurascente.

Phalæna-Pyralis nitidalis, *Cram. Pap. Exot.* iv. 160, pl. 371, f. F; v. pl. 22, f. 10.

Diaphania vitralis (Pyralis vulgaris, Palpita nobilis), *Hübn. Samml. Exot. Schmett.* i. 20, 51, f. 101, 102.

Phakellura nitidalis, *Guen. Delt. et Pyral.* 299, 311.

North America. Colombia. Cayenne. Surinam. Brazil.

a, *b*. St. Domingo. From Mr. Tweedie's collection.

c. Parà. Presented by Gordon Graham, Esq.

South America.

A. Alæ fascia marginali latissima. - - latilimbalis, *Guen.*

B. Alæ fascia marginali non latissima.

A. Alæ albæ.

a. Alæ anticæ valde acutæ. - - - lucidalis, *Hübn.*

b. Alæ anticæ non valde acutæ.

a. Abdominis segmentum apicale fuscum. plumbidorsalis, *Guen.*

b. Abdominis segmentum apicale flavescente-album. infimalis, *Guen.*

B. Alæ testaceo-fuscæ. - - - - fumosalis, *Guen.*

C. Alæ flavescentes.

a. Antennæ maris apud medium incrassatæ. Dardusalis, *Walk.*

b. Antennæ maris non incrassatæ. - Eumeusalis, *Walk.*

4. PHAKELLURA LATILIMBALIS.

Mas. *Nigra, subtus alba; tibiæ supra nigræ; alæ violaceo-chalybæo nitentes; anticæ macula discali trigona cyaneo-opalina; posticæ spatio interiore cyaneo-opalino.*

Phakellura latilimbalis, *Guen. Delt. et Pyral.* 296, 301.

Brazil.

5. PHAKELLULA PLUMBIDORSALIS.

P. hyalinatali *affinis; corpus supra fuscum; palpi vix albo varii; antennæ pubescentes, abdominis fasciculus apicalis plumbeus; pedes antici femoribus tibiisque intus fuscis; alæ anticæ vitta costali basi præsertim latiore; posticæ fimbria anteriore albo terminata.*

Phakellura plumbidorsalis, *Guen. Delt. et Pyral.* 298, 306.

Cayenne.

6. PHAKELLURA INFIMALIS.

Mas. *Alba, parva, gracilis; palpi albo parum varii; abdomen fuscum, segmento apicali flavescente-albo, fasciculo flavescente-cinereo alboque vario; alæ anticæ fascia marginali subconcava, puncto unico discali; posticæ fimbria apice alba apud angulos fusco vix conspurcata.*

Phakellura infimalis, *Guen. Delt. et Pyral.* 298, 307.

Cayenne.

7. PHAKELLURA LUCIDALIS.

Alba; abdomen supra fuscum; alæ fimbria fusco pallido obscuroque intercisa; anticæ subfalcatæ, valde acutæ, fascia marginali valde sinuata, costa flava; posticæ puncto discali.

Eudioptis lucidalis, *Hübn. Verz. Schmett.* 359, 3440.
Pyralis lucidalis, *Hübn. Samml. Exot. Schm.* f. 331, 332.
Phakellura lucidalis, *Guen. Delt. et Pyral.* 298, 308.

Surinam.

8. PHAKELLURA FUMOSALIS.

Fœm. *Testacea; abdominis fasciculus apicalis obscurior pilis lateralibus nigris; alæ punctis duobus discalibus nigris; anticæ semihyalinæ, fascia marginali testaceo-fusca diffusa apice vix falcata, maculis duabus ovatis hyalinis; posticæ hyalino-testaceæ, apud angulum interiorem rotundatæ, fascia marginali testacea opaca intus nigro lineata.*

Phakellura fumosalis, *Guen. Delt. et Pyral.* 300, 312.

Brazil?

9. PHAKELLURA DARDUSALIS.

Mas. *Cinereo-fusca, subtus alba; antennæ apud medium incrassatæ; thorax postice flavescens; abdomen flavescens, longissimum, alas posticas plus dimidio superans, fasciculo parvo subapicali flavescente fasciculoque patulo apicali nigro et flavescente; alæ flavescentes, semihyalinæ; anticæ costa margineque exteriore late cyaneo-fuscis, vitta postica læte flava, lituris duabus subcostalibus nigricantibus, punctis duobus subapicalibus flavescentibus; posticæ apice fuscescentes, puncto discali nigro.*

Male. Cinereous-brown, white beneath. Head white about the eyes. Antennæ incrassated in the middle. Thorax yellowish hindward. Abdomen yellowish, much attenuated, very long, extending for more than half its length beyond the hind wings, with a small subapical tuft of yellowish hairs, and with a wide-spreading apical tuft of black and yellowish hairs. Wings yellowish, semihyaline. Fore wings brown and tinged with metallic-blue along the costa, broadly but irregularly of the same hue along the exterior border and on the apical part of the interior border, of which the remaining part is occupied by a bright pale yellow stripe; two blackish discal marks half enclosed in the costal stripe; two yellowish subapical points. Hind wings brownish about the tips and with a black discal point. Length of the body 9 lines; of the wings 14 lines.

Rio Janeiro. In Mr. Fry's collection.

10. PHAKELLURA EUMEUSALIS.

Mas. *Cinereo-fusca, subtus alba; thorax postice flavescens; abdomen alas posticas sat superans, fasciculo apicali mediocri cervino apice nigricante; tibiæ anticæ fuscæ; alæ flavescentes, semihyalinæ; anticæ costa margineque exteriore late fuscis, plaga fusca apud angulum interiorem; posticæ apice fuscæ.*

Male. Cinereous-brown, white beneath. Thorax yellowish hindward. Abdomen extending somewhat beyond the hind wings, whitish at the tip, with a moderate-sized fawn-coloured blackish tipped apical tuft. Fore tibiæ brown. Wings yellowish, semihyaline. Fore wings broadly brown along the costa and about the

tips, and with a brown patch by the interior angle. Hind wings brown at the tips. Length of the body 7 lines; of the wings 14 lines.

Rio Janeiro. In Mr. Fry's collection.

Asia.

A. Alæ anticæ vitta costali non maculata.
A. Abdomen album segmentis duabus apicalibus fuscis. Indica, *Saund.*
B. Abdomen album, segmento apicali fusco. translucidalis, *Guen.*
C. Abdomen fuscum. - - - - superalis, *Guen.*
B. Alæ anticæ vitta costali maculata. - perspectalis, *Walk.*

11. Phakellura Indica.

Alba; caput, palpi supra, thorax abdominisque fascia subapicalis fusca; abdominis fasciculus fulvus albo varius apice fuscus; alæ albæ, iridescentes, fusco late marginatæ; posticæ margine fusco apud marginem exteriorem posticum subdilatato.

Phakellura Gazorialis, *Guen. Delt. et Pyral.* 297, 304.
Eudioptis Indica, *Saunders, Zool.* ix. 3070.

a—*c*. Congo. Presented by Sir J. Richardson.
d. Port Natal. From M. Gueinzius' collection.
e. Ceylon. Presented by R. Templeton, Esq.
f, *g*. Ceylon. From Mr. Stevens' collection.
h. Hindostan. From Archdeacon Clerk's collection.
i, *j*. North Hindostan. From Mr. Stevens' collection.
k. North Hindostan. From Mr. James' collection.
l. Punjaub. Presented by Gen. Hearsay.
m, *n*. Java. From the East India Company's collection.
o. Shanghai. From the Entomological Society's collection.
p, *q*. China. Presented by G. T. Laye, Esq.
r, *s*. Moreton Bay. From Mr. Diggles' collection.
t, *v*. Navigator's Isles.
u. ———?

12. PHAKELLURA TRANSLUCIDALIS.

Mas. *Alba; palpi fusci, albo non aut vix notati; antennæ longissimæ, subpubescentes; alæ fascia marginali fusca recta æquali; anticæ vitta costali æquali, spatio albo subapicali angusto interrupto; posticæ fimbria alba, fascia marginali æquali angulum interiorem fimbriamque contiguam attingente non attenuata.*

Phakellura translucidalis, *Guen. Delt. et Pyral.* 299, 309.

Silhet.

13. PHAKELLURA SUPERALIS.

Mas. *Alba, magna; palpi fusci, vix albo varii; abdomen pallide fuscum, apicem versus obscurius, basi album; alæ fascia marginali fusca æquali; anticæ vitta costali latissima.*

Phakellura superalis, *Guen. Delt. et Pyral.* 299, 310.

Silhet.

14. PHAKELLURA PERSPECTALIS.

Fœm. *Alba; caput, palpi et thorax antice cupreo-fusca; abdomen apice fusescens; tibiæ anteriores cupreo-fusco fasciatæ; alæ iridescentes, semihyalinæ, cupreo-fusco late marginatæ; anticæ vitta costali cupreo-fusca dilatata, maculas duas albas includente.*

Female. White. Head, palpi and thorax in front cupreous-brown. Abdomen brownish at the tip. Anterior tibiæ with cupreous-brown bands. Wings iridescent, semihyaline, broadly bordered with cupreous-brown. Fore wings with a costal cupreous-brown stripe, which is irregularly dilated and contains two white spots. Length of the body 8 lines; of the wings 20 lines.

a. North China. From Mr. Fortune's collection.

Country unknown.

15. PHAKELLURA ZYGÆNALIS.

Mas. *Alba; antennæ fere setaceæ; pedes toti albi; abdominis segmenta 5um et 6um fusca, fasciculus apicalis basi fulvus squamis albis varius; alæ anticæ fascia marginali distincte sinuata.*

Phakellura Zygænalis, *Guen. Delt. et Pyral.* 297, 305.

Genus 7. TOBATA.

Mas et fœm. Corpus sat robustum. Palpi porrecti, lati, compressi, pilosi, caput superantes. Antennæ pubescentes. Abdomen alas posticas non aut vix superans. Pedes longi, validi; tibiæ posticæ calcaribus longis. Alæ latiusculæ, pallidæ, margine obscuro; anticæ non elongatæ, apice subrotundatæ.

Male and female. Body moderately stout. Palpi porrect, broad, compressed, pilose, extending beyond the head. Antennæ pubescent, moderately stout. Abdomen extending a little or hardly beyond the hind wings. Legs long, stout; hind tibiæ with long spurs. Wings rather broad, pale, dark-bordered. Fore wings not prolonged, somewhat rounded at the tips; exterior border moderately oblique.

1. Tobata Elealis.

Mas et fœm.—*Flavescente-alba; caput et thorax antice palpique supra fusca; tibiæ anteriores fusco fasciatæ; alæ anticæ vitta costali fasciaque marginali latissima fuscis, gutta discali nigra; posticæ fascia marginali lata fusca angulum interiorem non attingente.* Mas.—*Abdomen apice nonnunquam fuscum, fasciculo apicali nigro.*

Male and female.—Yellowish white. Head and thorax in front and palpi above brown. Anterior legs with brown bands. Fore wings brown along the costa and along the exterior border, the marginal band much broader than the costal stripe; a black dot in the discal areolet adjoining the costal border. Hind wings with a broad brown marginal band, which does not extend to the interior angle. *Male.*—Abdomen occasionally brown at the tip; apical tuft black. Length of the body 5—6½ lines; of the wings 12—13 lines.

a—*c*. Sierra Leone. Presented by the Rev. D. F. Morgan.
d, *e*. Sierra Leone. From Mr. Foxcroft's collection.

2. Tobata Hermesalis.

Fœm. *Flavescente-alba; palpi, thoracis margo anticus et abdominis fasciculus apicalis fusci; pedes antici fusco fasciati; alæ anticæ vitta costali fasciaque marginali latissima nigro lineata cupreo-purpureis, guttis tribus aut quatuor anticis*

nigris; posticæ fascia marginali postice attenuata angulum interiorem non attingente. Mas?—*Flava; caput apud oculos, palpi thoracisque latera antica fuscescente-ochracea; abdomen apice purpurascente-fuscum; alæ valde iridescentes, fascia marginali lata fuscescente-purpurea; anticæ vitta costali fuscescente-purpurea, guttis subcostalibus atris.*

Female. White, with a primrose hue, which is most prevalent on the head, on the fore part of the thorax and at the base of the fore wings. Palpi, fore border of the thorax and bands of the fore legs brown. Abdomen with a brown apical tuft. Fore wings cupreous-purple along the costa and on one-third of the surface from the exterior border; a blackish denticulated line concisely dividing the dark from the pale part; a slender whitish marginal line; three or four irregular black dots along the costal stripe. Hind wings like the fore wings, except along the costa, the dark hue attenuated hindward and not reaching the interior angle. Length of the body 6 lines; of the wings 14 lines.

Male? Yellow. Head about the eyes, palpi and sides of the thorax in front brownish ochraceous. Abdomen purplish brown at the tip. Wings very iridescent, broadly brownish purple along the exterior border; this band terminating at some distance from the interior angle of the hind wings, and with a more irregular line than that of the female. Fore wings with a brownish purple costa, along which there are some deep black dots. Length of the body 5 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 8. CLINIODES.

Corpus vix robustum. Proboscis mediocris. Palpi rotundati, oculos non superantes; articuli indistincti. Antennæ breviusculæ, pubescentes. Abdomen sat gracile. Pedes validi; tibiæ subincrassatæ, subpilosæ. Alæ integræ, angulis rotundatis; anticæ oblongæ, opacæ, sat densæ; posticæ hyalinæ, amplæ. *Mas.*—Abdomen alas posticas sat superans, valvis analibus longissimis, sericeo-pilosis. *Fœm.*—Abdomen alas posticas paullo superans, apice acutum.

Cliniodes, *Guen. Delt. et Pyral.* 300.

Body hardly stout. Proboscis of moderate length. Palpi rounded, not extending beyond the eyes; joints indistinct. Antennæ rather short, slightly pubescent. Abdomen rather slender.

Legs stout; tibiæ slightly thickened and pilose. Wings entire; angles rounded. Fore wings oblong, rather stout, wholly opaque. Hind wings hyaline, well developed. *Male.*—Abdomen extending somewhat beyond the hind wings; anal valves very long, clothed with silky hairs. *Female.*—Abdomen extending a little beyond the hind wings, acute at the tip.

1. CLINIODES OPALALIS.

Fœm. *Rufescente-fusca; alæ anticæ cinereo variæ, macula magna costali alba maculam rotundatam rufescente-fuscam includente, linea exteriore alba recta obliqua fusco umbrata, linea interiore subobsoleta, striga discali alba; posticæ albæ opalino-hyalinæ, costa margineque lato nigris.*

Cliniodes opalalis, *Guen. Delt. et Pyral.* 301, 313.

North America.

2. CLINIODES SABURRALIS.

Mas. *Ferrugineo-fusca; palpi pedesque rufo-fusci; tarsi albi; alæ anticæ violaceo-albo conspersæ, lineis duabus obscurioribus, interiore arcuata, exteriore recta obliqua, macula costali subtrigona ferruginea, striga discali subarcuata alba; posticæ albo-hyalinæ, margine angusto nigro.*

Cliniodes saburralis, *Guen. Delt. et Pyral.* 301, 314.

Colombia.

Genus 9. MARGARONIA.

Color sæpissime albus. Corpus sæpissime robustum. Proboscis valida, mediocris. Palpi ascendentes, breves, lati, compressi, valde pilosi; articulus 3us brevissimus. Palpi maxillares pilosi, longiusculi. Antennæ simplices, nudæ aut pubescentes. Abdomen subcylindricum, alas posticas superans. Pedes longi, læves. Alæ lanceolatæ, semihyalinæ, plus minusve angustæ, costa sæpe obscura opaca. *Mas.*—Abdominis fasciculus apicalis sæpe obscurus. Tibiæ posticæ nonnunquam fasciculatæ.

Margaronia, *Hübn. Verz. Schm.* 358.
Margarodes, *Guen. Delt. et Pyral.* 301.

The earliest name of this genus is here restored to it, the later name having been erroneously adopted in the synopsis of the genera of the family.

Colour very generally white. Body most often stout. Proboscis stout, moderately long. Palpi ascending, short, broad, compressed, very pilose; third joint very short. Maxillary palpi pilose, often nearly as long as the labial palpi. Antennæ simple, bare or pubescent, moderately long and stout, incrassated at the base in some species. Abdomen nearly cylindrical, extending rather beyond the hind wings. Legs long, smooth, moderately stout; spurs moderately long. Wings lanceolate, more or less narrow, semihyaline; costa of the fore wings generally more or less dark and opaque. *Male.*—Abdomen with an apical tuft, which is often of a dark colour. Hind tibiæ tufted in some species.

Europe.

1. Margaronia Unionalis.

Alba; frons rufescente-flava; thorax linea antica rufescente; alæ flavescente-albæ, linea flavescente marginali vaga, punctis marginalibus nigris; anticæ costa fuscescente-fulva flavescente-albo intus marginata, punctis discalibus nigris. Mas.—*Abdominis segmentum apicale subtus nigro varium.*

Palpita Normalis Unionalis, *Hübn. Samml. Exot. Schmett.* i. *Lep.* vi. *Pyralides*, ii. *Communes*, ii. *Palpitæ*, C. *Normales*, a, f. 1—4.

Pyralis unionalis, *Hübn. Pyral.* pl. 20, f. 132.

Botys unionalis, *Treit. Schm.* vii. 116, 27. *Dup. Lép.* viii. 155, pl. 220, f. 4. *Herr.-Schæff. Schm. Eur.* iv. 25, 62.

Margaronia unionalis, *Hübn. Verz. Schm.* 358, 3429.

Margarodes unionalis, *Guen. Delt. et Pyral.* 305, 321.

South France. Spain. Italy. Dalmatia. Sicily. Hungary.

a. Nice. From Dr. Leach's collection.

North America.

1. Margaronia quadristigmalis.

Alba; caput supra flavum, antice luteum; palpi fusci; alæ fere hyalinæ, puncto discali nigro; anticæ costa fusca postice flavo marginata.

Margarodes quadristigmalis, *Guen. Delt. et Pyral.* 304, 319.
North America.

a, *b*. St. Domingo. From Mr. Tweedie's collection.

West Indies.

3. Margaronia imitalis.

Glauco-viridis, palpi supra fusci; thoracis margo anticus ochraceus; abdominis fasciculus apicalis niger ochraceo varius; alæ linea marginali cinerea, fimbria apice cinerea; anticæ costa ochracea, punctis marginalibus nigris.

Margarodes imitalis, *Guen. Delt. et Pyral.* 306, 323.

a—*c*. St. Domingo. From Mr. Tweedie's collection.
d. Venezuela. From Mr. Dyson's collection.
e. Rio Janeiro. From Mr. Lamb's collection.
f. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.
g. ——? Presented by E. Doubleday, Esq.

4. Margaronia lustralis.

Mas et fœm.—*Alba; palpi rostriformes, badii, subtus albi; alæ glaucescentes; anticæ costa tenuissime fulva albo opaco marginata.* Mas.—*Antennæ articulo 2o tumido pilis squamosis; abdominis fasciculus apicalis niger; alæ anticæ costa subtus plicata squamosa pilis longissimis fuscis sericeis.* Fœm.—*Antennarum articulus 1us tumidus.*

Margarodes lustralis, *Guen. Delt. et Pyral.* 306, 324.
Haiti.

5. Margaronia Flegyalis.

Alba; caput et palpi nigro guttata; antennæ nigricantes, basi subdilatatæ subtus albæ; thoracis latera antica nigra; anticæ linea costali nigro-cyanea.

Margaronia virginalis, *Hübn. Verz. Schm.* 358, 3431.
Phalæna-Pyralis Flegia, *Cram. Pap. Exot.* ii. 66, pl. 140, f. D. *Poey, Cent. Ins. Cub.*

Margarodes Flegyalis, *Guen. Delt. et Pyral.* 310, 336.

Cuba. Surinam.

a. St. Domingo. From Mr. Tweedie's collection.
b. Honduras. From Mr. Dyson's collection.
c—e. Jamaica. From Mr. Gosse's collection.
f. St. Thomas. Presented by Dr. Hornbeck.

South America.

A. Alæ albæ.
  A. Alæ anticæ guttis subcostalibus nigris. - isoscelalis, *Guen.*
  B. Alæ anticæ guttis nullis subcostalibus.
    A. Alæ anticæ costa nigro-cyanea. - phantasmalis, *Guen.*
    B. Alæ anticæ costa fusco-purpurea. - Argealis, *Walk.*
    C. Alæ anticæ costa ochracea aut fusca.
      a. Alæ lineis nullis transversis.
        i. Statura sat robusta. - - aurocostalis, *Guen.*
        ii. Statura gracillima. - - - Jairusalis, *Walk.*
      b. Alæ lineis transversis.
        i. Alæ anticæ costa fusca. - - Ianthealis, *Walk.*
        ii. Alæ anticæ costa pallide ochracea. Hypheusalis, *Walk.*
B. Alæ subauratæ. - - - - - Eribotalis, *Walk.*
C. Alæ viridescente-albæ. - - - - reductalis, *Guen.*
D. Alæ virides. - - - - - - Eribotesalis, *Walk.*

6. Margaronia isoscelalis.

Alba; caput anticum, palpi supra et femora antica cervina; alæ albæ, subhyalinæ; anticæ costa cervina, guttis tribus subcostalibus unaque discali nigris, punctis tribus apud marginem exteriorem subapicalem nigris; posticæ puncto discali nigro.

Margarodes isoscelalis, *Guen. Delt. et Pyral.* 304, 318.

Brazil.

a. Villa Nova. From Mr. Bates' collection.
b. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

7. MARGARONIA AUROCOSTALIS.

Fœm. *Alba; palpi thoracisque fascia fusco-fulva, fimbria nitente; anticæ vitta costali fusco-fulva æquali flavescente-albo postice marginata, punctis marginalibus vix conspicuis, margine exteriore minus obliquo; posticæ magis rotundatæ.*

Geometra costata? *Fabr. Ent. Syst.* iii. 2, 287.
Margarodes aurocostalis, *Guen. Delt. et Pyral.* 305, 322.
Guadeloupe.

8. MARGARONIA REDUCTALIS.

Mas. *Virides cente-alba; palpi supra cervini, articulo 2o apice albo; thoracis latera antica, fulvo-fusca; tibiæ anticæ fulvo-fusoæ, albo fasciatæ; abdomen apice fulvum; alæ fimbria cinerea; anticæ costa fulva, albo postice lineata, punctis marginalibus nigris.*

Margarodes reductalis, *Guen. Delt. et Pyral.* 307, 326.
Brazil.

9. MARGARONIA PHANTASMALIS.

Mas. M. Flegyali *simillima, multo minor; abdominis fasciculus apiculis quadratus, pilis deviis; alæ magis hyalinæ.*

Margarodes phantasmalis, *Guen. Delt. et Pyral.* 310, 337.
Margarodes Flegyalis, *var.?*
Colombia.

10. MARGARONIA ARGEALIS.

Mas. *Alba; caput, palpi et thorax fuscescente-purpurea; abdomen apicem versus fuscum, alas posticas longe superans; pedes anteriores supra fusci; alæ perangustæ, margine exteriore subtestaceo; anticæ lanceolatæ, vitta lata costali fuscescente-purpurea.*

Male. White. Head, palpi and thorax, except the hind part, brownish purple. Anterior legs mostly brown above. Abdomen brown towards the tip, extending rather far beyond the hind wings. Wings very narrow, tinged with testaceous along the exterior border, which is very oblique. Fore wings lanceolate, with a broad

costal brownish purple stripe, which is somewhat jagged along the hind border. Length of the body 7½ lines; of the wings 15 lines.

Parà. In Mr. Saunders' collection.

11. Margaronia Ianthealis.

Mas. *Alba, gracillima; palpi extus thoracisque latera antica fusca; abdominis fasciculus apicalis albus; alæ angustæ, lineis duabus aut tribus cinereis indistinctis flexis undulatis; anticæ lanceolatæ, acutæ, apud costam fuscæ, margine exteriore perobliquo.*

Male. White, very slender. Palpi exteriorly and sides of the thorax in front brown. Abdomen extending somewhat beyond the hind wings; apical tuft white. Wings narrow, with two or three indistinct cinereous bent and undulating lines. Fore wings lanceolate, acute, brown along the costa; exterior border very oblique. Length of the body 4 lines; of the wings 10 lines.

Colombia. In Mr. Saunders' collection.

12. Margaronia Hypheusalis.

Fœm. *Alba; palpi extus thoracisque latera antica pallide ochracea; abdomen alas posticas paullo superans; alæ subhyalinæ, linea transversa cinerea indistincta arcuata, punctis marginalibus nigris; anticæ costa pallide ochracea, lunula discali tenui cinerea; posticæ punctis marginalibus elongatis diffusis.*

Female. White. Palpi on the exterior side and sides of the thorax in front pale ochraceous. Abdomen extending a little beyond the hind wings. Wings nearly hyaline, with an indistinct cinereous curved transverse line; marginal points black, lengthened and diffuse in the hind wings. Fore wings pale ochraceous along the costa and with a slender cinereous discal lunule. Length of the body 4 lines; of the wings 8 lines.

Amazon Region. In Mr. Saunders' collection.

13. MARGARONIA ERIBOTESALIS.

Fœm. *Viridi-alba; capitis litura thoracisque margo anticus cervina; palpi cervini, apice lutei; abdomen apice testaceum; tibiæ fusco cinctæ; alæ virides, fasciis diffusis albis, punctis marginalibus nigris, fimbria alba; anticæ vitta costali abbreviata alba.*

Female. Body white, here and there tinged with green. Head with a vertical mark and fore border of the thorax fawn-colour. Palpi fawn-colour, luteous at the tips. Abdomen testaceous at the tip. Tibiæ brown at the tips; middle tibiæ brown at the base; fore tibiæ tufted with brown. Wings green, with irregular diffuse white bands; marginal points black; fringe white. Fore wings with a white costal stripe, which does not extend to the tips. Length of the body 8 lines; of the wings 18 lines.

a. Villa Nova. From Mr. Bates' collection.

14. MARGARONIA ERIBOTALIS.

Mas. *Alba, nitens; caput et thorax anticus subtestacea; palpi supra fusci; pedes antici ex parte fusci; alæ angustæ, subauratæ, valde iridescentes, linea tenui marginali cervina; anticæ punctis marginalibus anticis nigris, costa guttisque tribus contiguis fuscis, lunula guttaque discalibus fuscis connexis.*

Male. White, shining. Head and fore border of the thorax somewhat testaceous. Palpi brown above. Fore legs partly brown. Wings narrow, slightly gilded, very iridescent, with a slender fawn-coloured marginal line. Fore wings with three black points on the fore part of the exterior border; costa brown, with three contiguous brown dots, the exterior dot and a discal dot forming the two ends of a discal lunule. Length of the body 5 lines; of the wings 12 lines.

a. Honduras. From Mr. Dyson's collection.

15. MARGARONIA JAIRUSALIS.

Mas. *Alba, gracillima; palpi extus fusci; thoracis latera antica fusca; abdomen alas posticas longe superans, fasciculo apicali albo; pedes gracillimi, femoribus tibiisque anticis supra fuscis; alæ perangustæ; anticæ valde acutæ, vix falcatæ, costa fusca extus alba.*

Male. White, extremely slender. Palpi brown on the outer side. Sides of the thorax brown in front. Abdomen extending far beyond the hind wings; apical tuft white. Legs very slender; fore femora and fore tibiæ brown above. Wings very narrow. Fore wings very acute, hardly falcate, with a brown stripe along the costa, which is white exteriorly. Length of the body 6 lines; of the wings 12 lines.

a, *b*. Venezuela. From Mr. Dyson's collection.

This species recedes very far from the typical form of the genus.

Africa.

A. Alæ albæ. - - - - - - - transvisalis, *Guen.*
B. Alæ albo-virides. - - - - - - Politulalis, *Cram.*
C. Alæ virides.
A. Tibiæ posticæ non cristatæ.
a. Abdomen maris fasciculo apicali nigro.
a. Tibiæ anticæ albo non fasciatæ. - sericeolalis, *Drury.*
b. Tibiæ anticæ albo fasciatæ. - Arachnealis, *Walk.*
b. Abdomen maris fasciculo nullo nigro.
a. Alæ anticæ vitta costali lata. - - beryllalis, *Guen.*
b. Alæ anticæ vitta costali tenui. - Baldersalis, *Walk.*
B. Tibiæ posticæ cristatæ. - - squamopedalis, *Guen.*

16. Margaronia Politulalis.

Alba; alæ semihyalinæ; anticæ costa ochracea, apice margineque exteriore viridibus.

Phalæna-Noctua Polita, *Cram. Pap. Exot.* ii. 35, pl. 120, f. A.
Margaronia congradalis, *Hübn. Verz. Schm.* 358, 3430.
Margarodes Politulalis, *Guen. Delt. et Pyral.* 308, 330.

Sierra Leone.

17. Margaronia transvisalis.

Alba; palpi et thoracis latera antica subochracea; pedes antici ex parte subochracei; alæ subhyalinæ; anticæ costa subochracea, puncto discali nigro.

Margarodes transvisalis, *Guen. Delt. et Pyral.* 304, 320.

South Africa.

a, *b*. Mauritius.
c, *d*. Congo. Presented by Sir J. Richardson.

18. MARGARONIA SERICEOLALIS.

Glauco-viridis; caput, palpi, thoracis latera antica et alarum anticarum costa cervina; abdominis fasciculus apicalis ater; alæ gutta disculi nigricante, punctis marginalibus nigris fimbria cinereo interlineata.

Phalæna (Pyralis) sericea, *Drury, Ins. Exot.* ii. 9, pl. 6, f. 1.
Botys (Desmia?) sericea, *Westw. ed. Drury*, ii. 11, pl. 6, f. 1.
Margarodes sericeolalis, *Guen. Delt. et Pyral.* 307, 329.

a. Sierra Leone. From Mr. Foxcroft's collection.
b. Congo. Presented by Sir J. Richardson.
c. ——— ? Presented by E. Doubleday, Esq.
d. ——— ? From Mr. Milne's collection.

19. MARGARONIA BERYLLALIS.

Mas et fœm. M. Amphitritali *affinis; antennæ maris basi nodosæ; tibiæ intermediæ magis tumidæ; abdomen maris fasciculo nullo nigro; alæ magis flavescente-virides; antica costa fulvo-fusca latiore.*

Margarodes beryllalis, *Guen. Delt. et Pyral.* 307, 328.

Intertropical Africa.

20. MARGARONIA SQUAMOPEDALIS.

Mas. *Viridis; palpi apice subfuscescentes; tibiæ anticæ alba fusco cinctæ; tibiæ posticæ cristis duabus supra nigris subtus pallidis; alæ pistacino virides, subtus apud marginem exteriorem subcinerascentes, fimbria pallidissime cinerea; antica costa fusco pallido vix lineata; posticæ apud marginem interiorem fasciculis lanuginosis pallide fuscis.*

Margarodes squamopedalis, *Guen. Delt. et Pyral.* 309, 335.

Cape.

21. MARGARONIA ARACHNEALIS.

Mas. *Læte viridis, subtus glauco-alba, caput apud oculos album; antennæ pubescentes; abdominis fasciculus apicalis nigricans; femora antica apice ochracea; tibiæ anticæ cupreo-fuscæ fascia lata alba; alæ fimbria obscure cinerea; anticæ linea costali tenui cinerea, punctis marginalibus nigris, gutta discali nigricante; posticæ fimbria versus angulum interiorem viridescente-alba.*

Male. Very vivid green. Body beneath and legs white or glaucous. Head white about the eyes. Palpi blackish towards the tips, white beneath. Antennæ pubescent. Abdomen with a blackish apical tuft. Fore femora ochraceous towards the tips; fore tibiæ cupreous-brown, with a broad white band. Wings with a dark cinereous fringe. Fore wings with a slender cinereous costal line, with black marginal points, and with a blackish discal dot. Hind wings with the fringe greenish white towards the interior angle. Length of the body 6 lines; of the wings 16 lines.

a. Sierra Leone. From Mr. Foxcroft's collection.

22. MARGARONIA BALDERSALIS.

Fœm. *Pomaceo-viridis, subtus glauca, caput antice, palpi supra thoracisque latera antica cervina; abdomen apice testaceum; pedes antici testacei; alæ punctis marginalibus subobsoletis, fimbria viridi; anticæ linea costali tenui testacea, punctis duobus subcostalibus nigris; posticæ gutta discali nigra.*

Mas. *Læte-viridis; caput antice, palpi supra, thoracis latera antica et abdomen apice ochracea; alæ punctis distinctis marginalibus nigris; anticæ vitta costali ochracea postice albido marginata.*

Female. Apple-green. Body beneath and legs glaucous-white. Head in front, palpi above and fore sides of the thorax fawn-colour. Abdomen testaceous at the tip. Fore legs mostly testaceous. Wings with the marginal black dots almost obsolete; fringe green. Fore wings with a slender testaceous costal line, and with two black discal points near the costa. Hind wings with one black discal dot. Length of the body 6 lines; of the wings 16 lines

a. Port Natal. From M. Gueinzius' collection.

Male. Vivid green, glaucous-white beneath. Head in front, palpi above, fore sides of the thorax and tip of the abdomen ochraceous. Wings with distinct black marginal points; the discal dots as in the female. Fore wings with an ochraceous costal stripe, which is much attenuated towards the tip, and has a whitish hind border. Length of the body 5 lines; of the wings 14 lines.

b. Sierra Leone. Presented by the Rev. D. F. Morgan.

Asia.

A. Alæ albæ.
  A. Alæ punctis nigris.
    a. Alæ anticæ costa fusca. - - conchylalis, *Guen.*
    b. Alæ anticæ costa purpurea. - - Leodicealis, *Walk.*
  B. Alæ punctis pallide fuscis. - - laticostalis, *Guen.*
B. Alæ flavescente-albæ. - - - - nitidicostalis, *Guen.*
C. Alæ glaucescente-albæ. - - - Amphitritalis, *Guen.*
D. Alæ virides.
  A. Alæ non strigatæ.
    a. Palpi ferruginei.
      a. Alæ fimbria cinerea. - - - psittacalis, *Hübn.*
      b. Alæ fimbria, viridi. - - - Marthesiusalis, *Walk.*
    b. Palpi virides, apice ferruginei.
      a. Alæ anticæ costa alba. - - - pomonalis, *Guen.*
      b. Alæ anticæ costa non alba. - Phryneusalis, *Walk.*
    c. Palpi virides. - - - - - Vertumnalis, *Guen.*
  B. Alæ strigatæ. - - - - - hilaralis, *Walk.*

23. Margaronia laticostalis.

Mas. *Alba; caput, palpi supra, thorax antice, tibiæ anticæ genuaque intermedia violaceo-fusca; alæ valde iridescentes, margine exteriore flavescente-albo metallico micante, punctis marginalibus pallide fuscis; anticæ vitta costali lata violaceo-fusca antice aurato-fulva, striga alba discali*

Margarodes laticostalis, *Guen. Delt. et Pyral.* 303, 315.

Silhet.

24. Margaronia nitidicostalis.

Fœm. *Alba; palpi saturate fusci metallici fulvo squamosi; thorax margine antico pallide fulvo, tegulis anticis fuscis fulvo variis; alæ flavescente-albæ, iridescentes, venis obscuris, linea submarginali pallide aurato-fusca, linea marginali tenuiore; anticæ vitta costali æquali pallide aurato-fusca antice magis albida.*

Margarodes nitidicostalis, *Guen. Delt. et Pyral.* 303, 316.

Silhet.

25. Margaronia conchylalis.

Alba; caput supra, palpi et thoracis margo anticus fusco-aurata; alæ semihyalinæ, punctis marginalibus elongatis nigricantibus; anticæ costa fusco-aurata testaceo marginata.

Margarodes conchylalis, *Guen. Delt. et Pyral.* 303, 317.

Bengal. Malabar.

a. Nepaul. Presented by Major-General Hardwicke.
a, b. Hindostan. From the Entomological Society's collection.
b, c. Punjaub. Presented by General Hearsay.
c, d. North Hindostan. From Mr. James' collection.
d. ——? From Mr. Milne's collection.

26. Margaronia Amphitritalis.

Fœm. *Alba; palpi supra et thoracis latera antica fulvo-fusca; abdomen apice fulvescens; alæ glauco-albæ, subcyanescentes, fimbria cinerea supra basi alba; anticæ linea costali fulva, punctis marginalibus nigris.*

Margarodes Amphitritalis, *Guen. Delt. et Pyral.* 307, 327.

Silhet.

27. Margaronia psittacalis.

Pomaceo-viridis, subtus viridi-alba; oculi albo marginati; alæ fimbria cinerea; anticæ linea costali tenuissima testacea.

Parotis psittacalis (Pyralis vulgaris, Palpita tenora), *Hübn. Samml. Exot. Schmett.* iii. 30, 262, f. 523, 524.

Margarodes psittacalis, *Guen. Delt. et Pyral.* 308, 332.

China.

a. Ceylon. Presented by R. Templeton, Esq.
b. Hindostan. From Archdeacon Clerk's collection.
c. North Hindostan. From Mr. Stevens' collection.
d. North Hindostan. From Mr. James' collection.

28. Margaronia Vertumnalis.

Fœm. M. psittacali *simillima, minor; oculi rufo-fusci; palpi breviores, virides; alæ anticæ costa fusco pallido vix lineata, subtus omnino virides.*

Margarodes Vertumnalis, *Guen. Delt. et Pyral.* 309, 333.

Hindostan.

29. Margaronia pomonalis.

Læte pomaceo-viridis, subtus alba; abdominis fasciculus apicalis nigricans; alæ fimbria albida; anticæ costa alba.

Margarodes pomonalis, *Guen. Delt. et Pyral.* 309, 334.

China.

a. Ceylon. From Mr. Stevens' collection.

30. Margaronia Leodicealis.

Mas. *Alba; caput, palpi et thorax anticus aurato-purpurea; antennæ basi fuscescentes subcontortæ; abdomen apicem versus subauratum, fasciculo apicali fuscescente; pedes anteriores ex parte aurato-purpurei; alæ iridescentes, semihyalinæ, apud marginem exteriorem subargenteæ, punctis marginalibus nigris; anticæ angustæ, lanceolatæ, acutæ vitta costali lata aurato-purpurea.*

Male. White. Head, palpi and fore part of the thorax gilded-purple. Antennæ brownish towards the base, near which they are slightly contorted. Abdomen slightly gilded towards the tip; apical tuft brownish. Anterior legs partly gilded-purple. Wings iridescent, semihyaline, slightly silvery along the exterior border; some slight black marginal points. Fore wings narrow,

lanceolate, acute, broadly gilded-purple along the costa. Length of the body 8 lines; of the wings 18 lines.

Hindostan. In Mr. Saunders' collection.

31. MARGARONIA MARTHESIUSALIS.

Mas. *Viridescente-glauca; palpi thoracisque latera antica ochracea; abdominis fasciculus apicalis nigricans; alæ iridescentes, punctis marginalibus nigris minimis, puncto discali nigricante indistincto; anticæ linea costali nigricante extus attenuata et abbreviata.*

Male. Greenish glaucous. Palpi and sides of the thorax in front ochraceous. Abdomen with a blackish apical tuft. Wings iridescent, with very minute black marginal points, and with an indistinct blackish discal point. Fore wings with an ochraceous costal line, which is much attenuated exteriorly and does not extend to the tip of the wing. Length of the body 7 lines; of the wings 16 lines.

a. Hindostan. From the Entomological Society's collection.
b. ———? Presented by E. Doubleday, Esq.

32. MARGARONIA PHRYNEUSALIS.

Fœm. *Læte pomacea, subtus alba; palpi apice ochracei; alæ punctis marginalibus nigris, fimbria ochracea; anticæ linea costali tenuissima fusca, guttis duabus discalibus nigris; posticæ gutta subcostali nigricante, punctis marginalibus postice elongatis.*

Female. Bright apple-green, almost white beneath. Palpi ochraceous at the tips. Wings with black marginal points, which are elongated hindward in the hind wings; fringe dull ochraceous. Fore wings with a very slender brown costal line, and with two black discal dots. Hind wings with a larger blackish dot near the costa. Length of the body 7 lines; of the wings 18 lines.

a. North Hindostan. From Mr. James' collection.

33. Margaronia hilaralis.

Mas et fœm. *Læte glauco-viridis; caput antice album; palpi thoracisque latera antica ochracea; abdomen maculis discalibus transversis ochraceis; alæ strigis deviis pomaceis, linea, marginali nigricante, punctis marginalibus nigris, fimbria pallide cinerea; anticæ costa ochracea postice albo marginata, guttis duabus subcostalibus ochraceis, macula postica alba.* Mas — *Abdominis fasciculus apicalis nigricante-fuscus.* Fœm.—*Abdomen apice ochraceum.*

Male and female. Bright glaucous-green. Head white in front. Palpi and sides of the thorax in front ochraceous. Abdomen with a row of ochraceous spots, which form short bands hindward. Wings with irregular apple-green streaks, which are mostly on the fore wings, with a blackish marginal line, and with black marginal points; fringe pale cinereous. Fore wings with an ochraceous costa, with a white hind border, adjoining which there are two ochraceous dots; a white spot near the hind border before the middle. *Male.* — Abdomen with a blackish brown apical tuft. *Female.*—Abdomen ochraceous at the tip. Length of the body 5 lines; of the wings 14 lines.

a, *b*. Ceylon. Presented by R. Templeton, Esq.

Australasia.

A. Palpi supra obscuri:
- *A*. Alæ anticæ costa non incrassata. - glauculalis, *Guen.*
- *B*. Alæ anticæ maris costa incrassata. - - Egœalis, *Walk.*

B. Palpi apice obscuri.
- *A*. Alæ posticæ punctis marginalibus. - Morvusalis, *Walk.*
- *B*. Alæ posticæ lunulis marginalibus. - - Atlitalis, *Walk.*

34. Margaronia glaucoulalis.

Var.? *Glauco-viridis; caput antice, palpi supra, thoracis latera antica et alarum anticarum costa ochracea; alæ punctis marginalibus atris; anticæ gutta discali nigricante.*

Margarodes glauculalis, *Guen. Delt. et Pyral.* 306, 325.

a. Java. From the collection of the East India Company.
b. Sumatra. From Sir Stamford Raffles' collection.

35. Margaronia Morvusalis.

Fœm. *Pomaceo-viridis, subtus glauco-album; palpi apice cervini; abdomen apice fuscum; alæ punctis marginalibus nigris; anticæ linea costali tenuissima fuscescente, puncto discali nigro.*

Female. Apple-green. Body glaucous, white beneath. Palpi with fawn-coloured tips. Abdomen brown at the tip. Wings with minute black marginal points. Fore wings with an extremely slender brownish costal line, and with a black discal point. Length of the body 6 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

36. Margaronia Atlitalis.

Fœm.— *Læte pomaceo-viridis; palpi apice ochracei; pedes albi, tibiis anticis ochraceo bifasciatis; alæ punctis marginalibus nigris, fimbria fuscescente-cinerea; anticæ puncto discali nigro; posticæ punctis marginalibus posticis elongatis lunulatis.* Mas.—*Abdominis fasciculus apicalis niger.* Fœm.— *Abdomen apice ochraceum.*

Female.—Bright apple-green, paler beneath. Palpi white beneath, ochraceous at the tips. Legs white; fore tibiæ with two ochraceous bands. Wings with black marginal points, which are larger in the hind wings than in the fore wings, and are lengthened into lunules towards the interior angle of the former; fringe brownish cinereous. Fore wings with a black discal point. *Male.*—Abdomen with a black apical tuft. *Female.*—Abdomen ochraceous at the tip. Length of the body 6—7 lines; of the wings 14—16 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.
b. Philippine Isles. From Mr. Cuming's collection.
c. Australia. From M. Damel's collection.

37. Margaronia Egæalis.

Mas. *Glauco-viridis; palpi, thoracis latera antica pedesque antici ochracea; antennæ basi incrassatæ; alæ gutta discali nigra, fimbria cinerea, subtus nigricante tinctæ; anticæ vitta costali tenui fusca postice testaceo marginata, costa ante medium subincrassata.*

Male. Glaucous-green. Palpi, sides of the thorax in front and fore legs ochraceous. Antennæ inerassated towards the base. Wings with a black dot on each disk; fringe cinereous; under side tinged with blackish, especially towards the borders. Fore wings with a slender brown costal stripe, which is bordered with testaceous hindward; costa slightly inerassated a little before the middle. Length of the body 3½ lines; of the wings 9 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

Australasia.

38. Margaronia Arcusalis.

Fœm. *Alba; palpi cervini, basi albi; palpi maxillares breves, cervini, albo fasciati; antennæ ochraceæ; thorax antice cervinus; pedes anteriores ex parte cervini; alæ nitentes; anticæ costa lituraque discali U-formi fuscescentibus, margine exteriore fusco; posticæ margine exteriore subtestaceo.*

Female. White. Palpi fawn-colour, partly white towards the base. Maxillary palpi fawn-colour, with a white band, less than half the length of the labial palpi. Antennæ ochraceous. Thorax fawn-colour in front. Anterior legs partly fawn-colour. Wings very shining. Fore wings brownish along the costa, and with a brownish U-shaped discal mark; exterior border brown. Hind wings slightly testaceous along the exterior border. Length of the body 8 lines; of the wings 18 lines.

a. Moreton Bay. From Mr. Diggles' collection.

Oceania.

39. Margaronia Thetydalis.

Mas. *Albo-viridis; antennæ supra albæ, basi non tumidæ; palpi supra fulvi; thorax punctis duobus anticis fulvis; tibiæ anticæ basi albo fasciatæ; abdominis fasciculus apicalis testaceo-fuscus, basi nigricans; alæ fimbria subfulvescente-fuscæ; anticæ costa alba opaca fulvo lineata.*

Margarodes Thetydalis, *Guen. Delt. et Pyral.* 308, 331.

Otabeite.

Genus 10. HOTERODES.

Corpus gaacillimum. Proboscis breviuscula, sat gracilis. Palpi breves, compressi, oblique ascendentes, sat graciles, subtus pilosi; articulus 3us brevissimus. Palpi maxillares subobsoleti. Antennæ longæ, graciles, simplices, nudæ. Abdomen cylindricum, alas posticas superans. Pedes longi, graciles, glabri; calcaria breviuscula. Alæ sat amplæ, tenues, vix vestitæ; anticæ vix acutæ, non lanceolatæ. *Mas.*—Abdominis fasciculus apicalis tenuis, compressus.

Hoterodes, *Guen. Delt. et Pyral.* 310.
Margaronia, p., *Hübn. Verz. Schm.* 358.

Body very slender. Proboscis rather short and slender. Palpi obliquely ascending, short, compressed, rather slender, pilose beneath; third joint very short. Maxillary palpi almost obsolete. Antennæ long, slender, simple, bare. Abdomen cylindrical, extending somewhat beyond the hind wings. Legs long, slender, smooth; spurs rather short. Wings rather ample, delicate, thinly covered. Fore wings hardly acute, not lanceolate; exterior border moderately oblique. *Male.* — Abdomen with a slight compressed apical tuft.

1. Hoterodes Ausonialis.

Albo-cinerea; alæ semihyalinæ, iridescentes, fimbria alba; anticæ costa alba. Mas.—*Abdominis fasciculus apicalis nigricans.*

Phalæna-Pyralis Ausonia, *Cram. Pap. Exot.* ii. 66, pl. 140, f. C.
Margaronia Canastralis, *Hübn. Verz. Schm.* 358, 3432.
Hoterodes Ausonialis, *Guen. Delt. et Pyral.* 311, 338.

Surinam. Cayenne.

a—c. Venezuela. From Mr. Dyson's collection.
d. Honduras. From Mr. Dyson's collection.
e. Ega. From Mr. Bates' collection.
f. Parà. From Mr. Bates' collection.
g. St. Domingo. From Mr. Tweedie's collection.
h. St. Domingo. From Mr. Hearse's collection.

2. Hoterodes Gilippusalis.

Mas et fœm. *Cinereo-nigra, subtus albida; caput albidum, nigricante biguttatum; pedis pallide testacei, antici nigricante fasciati; tibiæ posticæ nigricantes; alæ purpurascente-cyaneæ* (mas) *aut purpurascente-cupreæ* (fœm.), *fimbria cinerea.*

Male and female. Cinereous-black, whitish beneath. Head whitish, with two blackish dots behind the antennæ. Palpi pale testaceous. Legs pale testaceous; fore legs with blackish bands; hind tibiæ blackish. Wings with metallic reflections, which are purplish blue in the male, purplish cupreous in the female; fringe cinereous. Length of the body 7—9 lines; of the wings 16—20 lines.

a. Villa Nova. From Mr. Bates' collection.
b. Tapayos. From Mr. Bates' collection.

Genus 11. CHROMODES.

Fœm.? Corpus sat gracile. Proboscis breviuscula. Palpi porrecti, breves, compressi, læves, sat graciles; articulus 3us brevissimus. Palpi maxillares lanceolati, breviusculi. Antennæ simplices. Abdomen cylindricum, alas posticas paullo superans. Pedes glabri, longiusculi, sat graciles; calcaria longa. Alæ luteæ, longiusculæ, sat angustæ, margine obscuro; anticæ subacuminatæ, margine exteriore perobliquo.

Chromodes, *Guen. Delt. et Pyral.* 311.

Female? Body rather slender. Proboscis rather short. Palpi porrect, short, compressed, smooth, rather slender, extending a little beyond the head. Maxillary palpi lanceolate, much shorter than the labial palpi. Antennæ simple, moderately long and stout. Abdomen cylindrical, extending a little beyond the hind wings. Legs smooth, rather long, moderately slender; spurs long. Wings luteous, dark-bordered, rather long and narrow. Fore wings slightly acuminated; exterior border very oblique.

1. Chromodes Armeniacalis.

Fœm.? *Læte lutea, subtus alba; caput antice nigricans; palpi nigricantes, subtus albi; thoracis margo anticus nigricans; alæ margine exteriore nigricante; anticæ costâ nigricante, guttis tribus subcostalibus nigricantibus.*

Chromodes Armeniacalis, *Guen. Delt. et Pyral.* 312, 339.

Brazil.

Amazon Region. In Mr. Saunders' collection.

The specimen here described differs somewhat both from the generic and specific characters of the male which is Guenée's type, and it may be a distinct species.

Genus 12. PYGOSPILA.

Corpus sat longum et robustum. Proboscis mediocris. Palpi breves, lati, compressi, pubescentes, subascendentes; articulus 3us minimus, Antennæ graciles, simplices, longiusculæ. Thorax vittatus. Abdomen maculatum, alas posticas superans. Pedes longi, glabri, calcaribus inæqualibus. Alæ lanceolatæ, maculis plurimis semihyalinis.

Pygospila, *Guen. Delt. et Pyral.* 312, 340.

Body rather long and stout. Proboscis moderately long. Palpi slightly ascending, short, broad, compressed, pubescent; third joint extremely minute. Antennæ slender, simple, rather long. Thorax striped. Abdomen spotted, extending beyond the hind wings. Legs long, smooth; spurs very unequal, one being long, the other very short. Wings lanceolate, moderately broad, with numerous semihyaline spots.

1. Pygospila Tyresalis.

Nigricans, subtus alba; caput album, disco nigro; thorax albo quadrivittatus; abdomen e maculis elongatis albis quadrivittatum; alæ maculis plurimis variis albis semihyalinis.

Phalæna-Pyralis Tyres, *Cram. Pap. Exot.* iii. 124, pl. 263, f. C.
Pygospila Tyresalis, *Guen. Delt. et Pyral.* 312, 340.

a. Himalaya Mountains. From Mr. Lamb's collection.
b, c. North Hindostan. From Mr. Stevens' collection.
d. North Hindostan.
e—g. Hindostan. From the Entomological Society's collection.
h. Hindostan. From Archdeacon Clerk's collection.
i. Punjaub. Presented by Gen. Hearsay.
j. ——— ? From Mr. Foxcroft's collection.
k. ——— ? Presented by the Entomological Club.
l, m. ——— ? From Mr. Milne's collection.
n. Madras.

2. PYGOSPILA COSTIFERALIS.

Mas. P. Tyresali *simillima; abdomen plus attenuatum et acuminatum; pedes magis robusti; alæ maculis paucioribus minoribus; anticæ costa apud medium subtumida; posticæ margine interiore apud medium pilis flavescentibus valde longioribus.*

Pygospila costiferalis, *Guen. Delt. et Pyral.* 313, 341.

Bombay.

Genus 13. EUGLYPHIS.

Corpus validum aut sat gracile. Proboscis longiuscula, sat robusta. Palpi ascendentes, breves, lati, compressi, subtrigoni, pubescentes; articulus 3us minimus. Palpi maxillares lanceolati, mediocres. Antennæ graciles, simplices, longissimæ. Abdomen subcylindricum, maculatum, alas posticas superans. Pedes graciles, glabri, longi, aut longissimi; calcaria longa. Alæ sat amplæ, plus minusve lanceolatæ, basi sæpissime ochraceæ et maculatæ. *Mas.*—Abdominis fasciculus apicalis parvus, compressus. Pedes antici fimbriati.

Euglyphis, *Hübn. Verz. Schmett.* 341.
Neurina, *Guen. Delt. et Pyral.* 313.
Filodes, *Guen. Delt. et Pyral.* 317.

Body moderately stout or rather slender. Proboscis rather long and stout. Palpi ascending, short, broad, compressed, pubescent, nearly triangular, separated by the proboscis; third joint very minute. Maxillary palpi lanceolate, moderately long. Antennæ slender, simple, very long. Abdomen spotted, nearly cylindrical, extending more or less beyond the hind wings. Legs slender, smooth, long or very long; spurs long. Wings rather ample, generally ochraceous and spotted at the base, more or less lanceolate. Fore wings slightly rounded at the tips; exterior border very oblique. *Male.*—Abdomen with a small compressed apical tuft. Fore femora and tibiæ fringed.

1. EUGLYPHIS PROCOPIALIS.

Albida; caput et thoraæ ochracea; abdomen vittis tribus maculalaribus nigris; alæ basi ochraceæ, radiis plurimis exterioribus cyanescentibus; anticæ guttis basalibus nigris.

Phalæna-Pyralis Procopia, *Cram. Pap. Exot.* iv. 152, pl. 368 f. E.
Euglyphis Procopialis, *Hübn. Verz. Schm.* 341, 3275.
Neurina Procopialis, *Guen. Delt. et Pyral.* 314, 342.

Amboina.

a. Hindostan. From the Entomological Society's collection.
b, *c*. Silhet. From the Rev. J. Stainforth's collection.
d, *e*. Silhet. Presented by E. Doubleday, Esq.
f. Java. From the East India Company's collection.
g. Ceylon. Presented by R. Templeton, Esq.

2. EUGLYPHIS FULVIDORSALIS.

Mas et fœm. Var.? *Miniata, subtus nigra, caput antice nigrum; antennæ longissimæ, gracillimæ; abdomen e maculis chalybeo-nigris trivittatum; pedes longissimi; alæ cinereo-nigræ; anticæ basi miniatæ, costa interiorè chalybæa, guttis quatuor discalibus interioribus nigris.* Var. β.—*Major; alæ ampliores; anticæ guttis tribus interioribus nigris.*

Pinacia fulvidorsalis (Pyralis geometriformis, Salia egregia), *Geyer, Zutr. Samml. Exot. Schm.* 15, 322, f. 643, 644.
Filodes fulvidorsalis, *Guen. Delt. et Pyral.* 317, 343.

Java.

Male and female. Var.? Red-lead colour, black beneath. Head in front and palpi black. Antennæ very long and slender. Abdomen chalybeous-black at the tip and with three rows of chalybeous-black spots. Pectus testaceous in front. Legs very long, whitish or blackish, according to the aspect in which they are viewed. Wings grayish black. Fore wings chalybeous along part of the costa, red-lead colour at the base, with four black dots in a line near the base. Length of the body 7—8 lines; of the wings 16—18 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b. Ceylon. From Mr. Stevens' collection.
c. Ceylon. From Mr. Cuming's collection.
d, *e*. Ceylon.
f. North Hindostan. From Mr. James' collection.

Var. β. Larger. Wings more ample. Fore wings with three black dots near the base, arranged differently from those of *var. a*. Length of the body 9 lines; of the wings 22 lines.

g, *h*. Dwerjeling, Himalaya Mountains. From Captain Parry's collection.

3. Euglyphis Cocytusalis.

Fœm. *Cinereo-nigra; antennæ longissimæ, gracillimæ; pectus antice testaceum; abdomen subochraceum, segmentis chalybeo marginatis, maculis lateralibus elongatis atris; alæ lineis duabus indistinctis obliquis nigris; anticæ costa interiore chalybæa.*

Female. Grayish black. Antennæ very long and slender, longer than the body. Pectus testaceous in front. Abdomen extending rather far beyond the hind wings, dull ochraceous above, chalybeous at the tip and on the hind borders of the segments, with two rows of elongated deep black dots. Wings with two indistinct oblique black lines. Fore wings chalybeous along the costa towards the base. Length of the body 8 lines; of the wings 16 lines.

a. Sierra Leone. From Mr. Foxcroft's collection.

Genus 14. MARUCA.

Corpus sat gracile. Proboscis mediocris. Palpi porrecti, lati, compressi, fimbriati, rostriformes; articulus 3us minutus. Palpi maxillares breves, distincti. Antennæ glabræ, submoniliformes, longiusculæ. Abdomen subcylindricum, alas posticas paullo superans; fasciculus apicalis parvus. Pedes glabri, graciles, calcaribus longis. Alæ vix falcatæ, lituris vitreis; posticæ vitreæ, margine obscuro.

Body rather slender. Proboscis moderately long and stout. Palpi porrect, broad, compressed, fringed, rostriform, as long as the head; third joint minute. Maxillary palpi short, distinct. Antennæ bare, submoniliform, rather long. Abdomen nearly cylindrical, extending a little beyond the hind wings; apical tuft small. Legs smooth, slender; spurs long. Wings moderately long and broad. Fore wings hardly falcate, with vitreous marks; exterior border moderately oblique. Hind wings vitreous, dark-bordered.

1. Maruca aquatilis.

Cinereo-fusca, subtus alba; alæ anticæ costa testacea, lituris duabus interioribus fasciaque exteriore abbreviata albo-vitreis nigricante marginatis; posticæ albo-vitreæ, lineis duabus undulatis cinereis, lituris duabus costalibus fasciaque marginali lata abbreviata excisa cinereo-fuscis nigricante marginatis.

Hydrocampa aquatilis, *Boisd. Guer. Icon. Règn. Anim. Ins.* pl. 90, f. 9.

a, *b*. Congo. Presented by Sir J. Richardson.
c. Villa Nova. From Mr. Bates' collection.
d. Bogota. From Mr. Stevens' collection.
e. Ceylon. Presented by R. Templeton, Esq.
f, *g*. Punjaub. Presented by Gen. Hearsay.
h. Moreton Bay. From Mr. Diggles' collection.
i. Honduras. From Mr. Miller's collection.

Sarawak, Borneo.

Genus 15. EPORIDIA.

Corpus robustum. Proboscis brevis. Palpi ascendentes, robusti, arcuati, compressi, pubescentes; articulus 3us minimus. Antennæ validæ, simplices. Pedes validi, glabri, longiusculi; tibiæ posticæ subfimbriatæ; calcaria longa. Alæ longiusculæ, sat amplæ, ex parte semihyalinæ, margine exteriore subflexo; anticæ acutæ, subfalcatæ.

Body stout. Proboscis short. Palpi ascending, stout, curved, compressed, pubescent, applied to the head; third joint very minute. Antennæ stout, simple, much shorter than the body. Legs stout, smooth, rather long; hind tibiæ slightly fringed; spurs long. Wings rather long, somewhat ample, partly semihyaline; exterior border slightly bent. Fore wings acute, nearly falcate.

1. Eporidia Dariusalis.

Pallide cinereo-fusca, subtus alba; alæ anticæ macula discali interiore plagaque transversa informi exteriore albidis semihyalinis; posticæ disco interiore albido semihyalino valde sinuato.

Pale cinereous-brown, white beneath. Palpi white beneath towards the base. Fore wings almost whitish along the middle part of the costa and along part of the interior border, with a semihyaline whitish discal spot before the middle, and with an exterior irregular transverse patch of the same hue. Hind wings with the interior part of the disk whitish and semihyaline, including a brown

spot in front, and bounded by a deeply undulating brown line. Length of the body 7? lines; of the wings 20 lines.

a. Ashanti. From the Wesleyan Missionary Society's collection.

Genus 16. AZOCHIS.

Mas. Corpus sat graëile. Proboscis mediocris. Palpi porrecti, compressi, obtusi, pilosi, caput superantes; articulus 3us minimus. Palpi maxillares breves. Antennæ pubescentes, sat validæ, basi incrassatæ. Abdomen alas posticas superans. Pedes glabri, vix robusti; calcaria longiuscula; tibiæ posticæ apice fasciculatæ. Alæ fere vitreæ; anticæ acutæ.

Male. Body rather slender. Proboscis moderately long. Palpi porrect, compressed, obtuse, pilose, extending rather beyond the head; third joint very minute. Maxillary palpi short. Antennæ pubescent, rather stout, incrassated at the base. Abdomen extending rather beyond the hind wings; apical tuft moderately large. Legs smooth, moderately stout; spurs rather long; hind legs tufted at the tips of the tibiæ and at the base of the tarsi. Wings moderately broad, mostly vitreous. Fore wings with acute tips; exterior border moderately oblique.

1. Azochis Gripusalis.

Mas. *Cinerea; palpi fusci, subtus basi albi; abdominis fasciculus apicalis niger; tarsi nigricante fasciati; tibiæ anticæ apice nigræ; alæ subtestaceo semihyalinæ; anticæ lineis tribus transversis subarcuatis nigricantibus, plagis duabus marginalibus nigris, fimbria nigro punctata; posticæ maculis marginalibus nigris.*

Male. Cinereous. Palpi brown, white beneath towards the base. Abdomen with a black apical tuft. Tarsi with blackish bands. Fore tibiæ black towards the tips. Wings semihyaline, with a slight testaceous tinge. Fore wings with three blackish transverse slightly curved lines; exterior border with two black dots in front, and with a black patch in the middle and another by the interior angle; fringe with elongated black points. Hind wings with a slight indication of the submarginal line, with a black spot on the interior, with another on the exterior border near the tip,

where there is a larger black spot. Length of the body 6 lines; of the wings 14 lines.

a. Ega. From Mr. Bates' collection.

Genus 17. CAPRINIA.

Mas. Corpus gracile. Proboscis brevis, tenuis. Palpi breves, lati, compressi, pilosi, suberecti, caput vix superantes, articulis indistinctis. Palpi maxillares graciles, distincti. Antennæ graciles, longiusculæ, submoniliformes. Abdomen subcylindricum, alas posticas paullo superans; fasciculus apicalis parvus. Pedes glabri, graciles, calcaribus longis. Alæ tenues, longiusculæ; anticæ apice rotundatæ.

Male. Body slender. Proboscis short, slight. Palpi broad, short, compressed, pilose, almost vertical, hardly ascending above the head; joints indistinct. Maxillary palpi slender, distinct. Antennæ slender, submoniliform or with nearly triangular joints, rather long. Abdomen nearly cylindrical, extending very little beyond the hind wings; apical tuft small. Legs smooth, slender; spurs long. Wings rather long, delicate, moderately broad. Fore wings rounded at the tips; exterior border moderately oblique.

1. Caprinia Periusalis.

Mas. *Alba; caput, palpi, thoraæ antice et abdomen apice chalybeo-fusca; pedes antici supra fusci; alæ plaga magna apicali fusca albido bipunctata, fimbria anteriore fusca albido strigata; anticæ maculis tribus subcostalibus chalybeo-fuscis; posticæ gutta disculi interiore.*

Male. White. Head, palpi, except at the base, fore part of the thorax and tip of the abdomen brown, with a slight chalybeous tinge. Fore femora and fore tibiæ brown above. Middle legs brown about the knees. Wings severally with a large apical brown patch, which contains two whitish points; fringe brown and with whitish streaks, except towards the interior angle. Fore wings with three chalybeous-brown spots half-enclosed in the brown costal stripe. Hind wings with a brown dot in the interior part of the disk. Length of the body 5 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

Genus 18. ILURGIA.

Mas. Corpus longum, gracillimum. Frons elongata, conica. Proboscis longiuscula. Palpi breves, latissimi, valde compressi, oblique ascendentes; articulus 3us minimus. Palpi maxillares graciles, breviusculi. Antennæ longæ, graciles, pubescentes. Abdomen cylindricum, longissimum, alas posticas dimidio superans; fasciculus apicalis longus, compressus. Pedes glabri, longissimi, gracillimi, calcaribus longis. Alæ anticæ perangustæ, apice subrotundatæ; posticæ subvitreæ.

Male. Body long, very slender. Front elongate, conical. Proboscis rather long. Palpi obliquely ascending, short, much compressed, very broad; third joint extremely minute. Maxillary palpi slender, rather short. Antennæ long, slender, pubescent. Abdomen cylindrical, very long, extending for half its length beyond the hind wings; apical tuft long, compressed. Legs smooth, very long and slender; spurs long. Fore wings very narrow, somewhat rounded at the tips, very oblique along the exterior border. Hind wings rather narrow, nearly vitreous.

1. ILURGIA DEFAMATALIS.

Mas. *Ochracea, subtus alba; caput albo vittatum; palpi albo marginati; thorax albo quadrivittatus; abdomen cinereo-fuscum, apice testaceum; alæ anticæ fusco subnebulosæ, lineis duabus nitentibus albis, guttis duabus discalibus, una antica nigra, altera postica fusca, linea marginali alba; posticæ albæ, subvitreæ, apice nigricantes.* Var. β.—*Cervina; alæ anticæ subvitreæ, strigis fuscis aut nigris, lituris duabus discalibus nigricantibus.*

Male. Ochraceous, white beneath. Head white about the eyes, and with a white stripe. Palpi bordered with white. Thorax with four white lines. Abdomen cinereous-brown; apical tuft testaceous. Legs white. Fore wings pale ochraceous, slightly shaded with brown, with two shining white lines, the fore one having a black dot on its fore border, the hind one having a brown dot on its hind border; exterior border with a white line. Hind wings white, nearly vitreous, blackish at the tips and along the adjoining part of the exterior border. Length of the body 7 lines; of the wings 12—14 lines.

Hindostan. In Mr. Saunders' collection.

Var. β. Fawn-colour, white beneath. Head white about the eyes and with a white middle stripe. Fore wings mostly vitreous in the disk, slightly and irregularly streaked with brown or with black; two blackish marks representing the orbicular and reniform spots.

a. Ceylon. Presented by R. Templeton, Esq.
b. Nepaul. Presented by E. Doubleday, Esq.

Fam. 8. BOTYDÆ.

Corpus læve, squamosum. Caput sæpissime parvum. Proboscis mediocris. Palpi squamoso-pilosi, porrecti aut subascendentes, sæpe rostriformes, articulis non bene determinatis. Palpi maxillares distincti aut obsoleti. Antennæ simplices aut ciliatæ, rarissime pectinatæ. Abdomen plus minusve conicum et attenuatum. Pedes glabri; tibiæ anticæ brevissimæ. Alæ nitentes, tenues, sat amplæ; anticæ lineis interiore et exteriore litirisque discalibus sæpe distinctis; posticæ angulo interiore sæpissime producto.

Botydæ, *Guen. Delt. et Pyral.* 315.

Body smooth, squamous. Head generally small. Proboscis moderately long. Palpi squamous-pilose, porrect or slightly ascending, often rostriform; joints generally indistinct. Maxillary palpi distinct or obsolete. Antennæ moderately long, simple or ciliated, very rarely pectinated. Abdomen more or less conical and attenuated. Legs smooth; fore tibiæ very short. Wings shining, somewhat ample, delicate. Fore wings with the interior and exterior lines and the orbicular and reniform marks often distinct. Hind wings with the interior angle generally elongated.

A. Alæ anticæ costa non fasciculata.
  A. Pedes lati.
    A. Corpus valde robustum.
      a. Alæ anticæ non falcatæ. - 1. Polygrammodes, *Guen.*
      b. Alæ anticæ falcatæ. - - 11. Megastes, *Guen.*
    B. Corpus non valde robustum.
      a. Alæ valde guttatæ. - - - 2. Astura, *Guen.*
      b. Alæ non valde guttatæ.
        i. Antennæ articulo 1o valde tumido.
          3. Botyodes, *Guen.*

ii. Antennæ articulo 1o non valde tumido.
* Palpi valde ascendentes.
† Antennæ sat breves. - 5. Phryganodes, *Guen.*
†† Antennæ longissimæ. - 6. Lonchodes, *Guen.*
** Palpi non valde ascendentes.
† Thoracis tegulæ longissimæ aut elevatæ.
7. Omiodes, *Guen.*
†† Thoracis tegulæ non longissimæ nec elevatæ.
‡ Palpi maxillares sæpe non distincti.
§ Palpi articulo 3o non valde distincto.
4. Botys, *Latr.*
§§ Palpi articulo 3o valde distincto.
15. Sceliodes, *Guen.*
‡‡ Palpi maxillares distincti.
§ Palpi non rostriformes.
× Palpi non angulati.
9. Homophysa, *Guen.*
×× Palpi angulati. - 12. Orobena, *Guen.*
§§ Palpi rostriformes.
× Pedes robusti. 18. Agramma, *Guen.*
×× Pedes non robusti.
0 Palpi non valde producti.
+ Alæ nitentes.
++ Antennæ submoniliformes.
14. Scopula, *Schr.*
++ Antennæ non submoniliformes.
ᔕ Alæ anticæ vix acutæ.
8. Ebulea, *Guen.*
ᔕᔕ Alæ anticæ acutæ aut subfalcatæ.
10. Pionea, *Guen.*
+-+ Alæ vix nitentes.
++ Palpi maxillares truncati.
17. Nymphula, *Schr.*
++++ Palpi maxillares non truncati.
ᔕ Caput minimum.
16. Lemiodes, *Guen.*
ᔕᔕ Caput non minimum.
13. Spilodes, *Guen.*
00 Palpi valde producti.
19. Mecyna, *Guen.*
B. Pedes lati. - - - - - 20. Herculia, *Walk.*
B. Alæ anticæ maris costa fasciculata. - 21. Godara, *Walk.*

Genus 1. POLYGRAMMODES.

Mas. Corpus crassum. Proboscis brevissima. Palpi crassi, incumbentes, contigui, rostriformes, bicolores, squamoso-hirsuti. Palpi maxillares obsoleti. Antennæ robustæ, brevissime ciliatæ. Thorax subquadratus, pilosus. Abdomen cylindrico-conicum, alas posticas superans, apice obtusum. Pedes antici robusti, valde squamosi, tibiis villosis. Alæ amplæ, robustæ, squamosæ.

Polygrammodes, *Guen. Delt. et Pyral.* 318.

Male. Body thick. Proboscis very short. Palpi stout, incumbent, contiguous, rostriform, of two colours, squamous-hirsute. Maxillary palpi obsolete. Antennæ robust, with very short bristles. Thorax villose, somewhat quadrate. Abdomen cylindric-conical, extending beyond the hind wings, obtuse at the tip. Fore legs robust, very squamous, with villose tibiæ. Spurs short. Wings ample, robust, squamous.

This genus is nearly allied to Guenée's second group of *Botys*.

1. Polygrammodes runicalis.

Mas. *Croceo-flava, nigro guttatâ; palpi nigro-cyanei, subtus albi; femora antica intus saturate purpurea; alæ apud discum stramineæ, costa venisque albidis, lituris basalibus, strigis exterioribus, guttisque submarginalibus et marginalibus nigris.*

Polygrammodes runicalis, *Guen. Delt. et Pyral.* 318, 344.

Brazil.

Genus 2. ASTURA.

Corpus vix robustum. Proboscis mediocris. Palpi breves, lati, squamosi, obtusi; articulus 3us minimus. Palpi maxillares obsoleti. Antennæ graciles, cylindricæ. Abdomen subcarinatum, sæpe maculatum, alas posticas superans, apice subelevatum. Pedes glabri, calcaribus inæqualibus. Alæ oblongæ, pallidæ, guttis plurimis obscuris, linea marginali sæpe aurata; anticæ apice subrotundatæ.

Astura, *Guen. Delt. et Pyral.* 318.

Body hardly stout. Proboscis moderately long. Palpi short, broad, squamous, obtuse, extending very little beyond the head;

third joint very minute. Maxillary palpi obsolete. Antennæ slender, cylindrical. Abdomen slightly keeled, often spotted, extending somewhat beyond the hind wings, slightly elevated at the tip. Legs smooth, moderately long and stout, with unequal spurs. Wings oblong, pale, with numerous dark dots, often with a gilded border. Fore wings somewhat rounded at the tips; exterior border slightly or moderately oblique.

1. ASTURA ELEVALIS.

Croceo-lutea, corpore alisque purpureo guttatis, palpis purpureis basi subtus albidis, femoribus anticis purpureis, tibiis tarsisque anticis purpureo fascialis, alis linea marginali aurata micante.

Phalæna elevata, *Fabr. Ent. Syst.* iii. 2, 216, 325.
Astura elevalis, *Guen. Delt. et Pyral.* 319, 345.

Cayenne.

a. Parà. Presented by Gordon Graham, Esq.
b. Ega. From Mr. Bates' collection.

2. ASTURA FIMBRIAURALIS.

Var.? *Pallide flava, nigro maculata; alæ sat angustæ, linea exteriore vaga punctisque submarginalibus nigro-purpureis, fimbria basi aurata micante; anticæ annulis incompletis aut connexis strigaque discali nigro-purpureis.*

Astura fimbriauralis, *Guen. Delt. et Pyral.* 319, 346.

a. Jamaica. From Mr. Gosse's collection.
b. St. Domingo. From Mr. Tweedie's collection.
c. Parà. From Mr. Bates' collection.

3. ASTURA PUNCTIFERALIS.

Pallide flava, nigro punctata; palpi ascendentes, arcuati; alæ punctis lineas obliquas plus minusve fingentibus. Mas.—*Abdominis fasciculus apicalis ex parte niger.* Var. β.—*Alæ anticæ plaga discali maxima fusca.*

Astura punctiferalis, *Guen. Delt. et Pyral.* 320, 347.

Hindostan.

a—*c*. North China. From Mr. Fortune's collection.
d. Shanghai. From the Entomological Society's collection.

4. Astura Obrinusalis.

Fœm. *Lutea; palpi ascendentes; tibiæ anticæ apice nigræ; tarsi antici nigro fasciati; alæ anticæ guttis tribus costalibus unaque discali nigris.*

Female. Luteous, paler beneath. Palpi ascending; third joint minute, conical, not more than one-fourth of the length of the second. Abdomen extending some distance beyond the hind wings. Fore tibiæ black towards the tips; fore tarsi with black bands. Fore wings with three black costal dots, and with one black discal dot; first costal dot very near the base. Length of the body 5 lines; of the wings 10 lines.

a. Punjaub. Presented by General Hearsay.

5. Astura? Clioalis.

Fœm. *Testacea; palpi lati, ascendentes, extus nigri; abdomen alas posticas perpaullo superans, guttis duabus basalibus nigris; alæ lineis nigris ex parte luteis, linea submarginali undulata e punctis nigris; anticæ punctis tribus basalibus nigris, linea interiore nigra postice lutea.* Var. β.—*Thoracis latera antica nigra; alæ lineis fuscis fere continuis, punctis submarginalibus valde elongatis; anticæ linea basali nigra, lunula discali fusca, linea media fusca luteaque postice conspicua.*

Female. Testaceous. Palpi broad, ascending, black on the outer side, except towards the tips. Abdomen extending very little beyond the hind wings, with a black dot on each side near the base. Wings with black markings; exterior line very widely interrupted in the middle as to the black hue, but continued in an indistinct luteous line, as are also some of the other markings; submarginal line undulating, composed of points; fringe whitish exteriorly. Fore wings with three dots near the base, and with an interior line which is luteous towards the interior border. *Var.* β.—Thorax black on each side in front. Wings with the exterior line brown, almost continuous, black by the costa of the fore wings; points of the submarginal line much elongated. Fore wings with a black

basal line, near which there are three black dots, the latter not arranged like those of the fore wings; interior line brown, bordered with luteous, black by the costa, apparent also on the hind wings; a brown discal lunule, behind which the brown and luteous middle line becomes visible. Length of the body 5—5½ lines; of the wings 12—13 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

6. Astura? Clytusalis.

Mas et fœm. *Lutea; palpi ascendentes, basi nigri; antennæ nudæ; abdomen macula subapicali nigra; pedes antici nigro fasciati; alæ anticæ fasciis tribus guttaque discali nigris; posticæ fascia una nigra.*

Male and female. Luteous. Palpi ascending, black at the base; third joint conical, very minute. Antennæ bare. Abdomen with a black subapical dot. Fore tibiæ and fore tarsi with black bands. Fore wings with three black bands and with a black discal dot between the second and third bands; first band very near the base; second and third undulating, somewhat angular, the space about them rather pale. Hind wings with one band corresponding to the third band of the fore wings. Length of the body 4—4½ lines; of the wings 9—10 lines.

a—d. New South Wales. From Mr. Wood's collection.

Genus 3. BOTYODES.

Corpus robustum. Palpi ascendentes, compressi, lati; articulus 3us minimus. Palpi maxillares tenuissimi. Antennæ maris graciles, glabræ, setaceæ; articulus 1us tumidus, fasciculatus, sæpe incisus. Pectus anticum squamis magnis albis. Abdomen maris tumidum, vix conicum; fasciculus apicalis nigricans, quadratus. Alæ concolores, lituris non diversis; anticæ apice elongatæ; posticæ breves, angulo interiore subproducto.

Botyodes, *Guen. Delt. et Pyral.* 320.

Body stout. Palpi ascending, compressed, broad; third joint indistinct, button-shaped. Maxillary palpi very slender, often concealed by the labial palpi. Antennæ of the male slender, smooth, setaceous; first joint very tumid, tufted, often notched. Thorax

broad. Pectus with large white scales in front. Abdomen of the male tumid, hardly conical, with a quadrate apical tuft of blackish hairs. Wings alike in colour and with like markings; lines and discal marks distinct. Fore wings prolonged at the tips. Hind wings short, with the interior angle slightly elongated; their exterior border in a line with that of the fore wings.

1. Botyodes vestigialis.

Mas. *Flavescens; palpi rostriformes, fusco-flavi, subtus albi; antennæ articulo 1o pilis flavis albisque vestito; abdominis fasciculus apicalis nigricans, flavo varius; pedes albi, tarsis intermediis flavo cinctis; alæ linea communi sinuata; anticæ linea interiore subarcuata subundulata liturisque duabus discalibus pallide violaceo-cinereis; posticæ striga parva discali lineaque tenui submarginali.*

Botyodes vestigialis, *Guen. Delt. et Pyral.* 321, 349.

Colombia.

2. Botyodes asialis.

Mas et fœm. *Ochraceo-flava; abdomen flavum, fasciculo apicali maris nigro-cinereo; alæ margine lato lineaque media valde sinuata et interrupta rufescente-violaceis costam non attingentibus; anticæ linea interiore interrupta obliqua, orbiculari punctiformi, reniformi e annulo ovato, posticæ litura discali magna e striga flava divisa.*

Botyodes asialis, *Guen. Delt. et Pyral.* 321, 348.

Hindostan.

Genus 4. BOTYS.

Corpus plus minusve gracile. Ocelli distincti. Proboscis valida. Palpi porrecti et rostriformes aut ascendentes, non longi; articulus 3us crassus, squamosus, brevis. Palpi maxillares indistincti. Antennæ cylindricæ, filiformes, simplices, maris nonnunquam pubescentes rarissime pectinatæ. Thorax sat robustus. Abdomen conicum, alas posticas plus minusve superans. Pedes longi, nudi, calcaribus longis. Alæ longiusculæ; anticæ sæpissime acutæ.

Botys, *Latr. Cons. Gén.* 369; *Treit.*; *Dup.*; *Herr.-Schæff.*; *Guen. Delt. et Pyral.* 322.
Eurrhypara, Mesographe, Epicorsia, Hapalia, Perinephela, Glaphyria, *Hübn. Verz. Schm.* 354, 355, 357, 360.
Eurrhypara et Margaritia, *Steph.*

Body more or less slender. Ocelli distinct. Proboscis stout, moderately long. Palpi porrect and rostriform, or ascending, not long; third joint stout, squamous, nearly always short. Maxillary palpi indistinct. Antennæ cylindrical, filiform, simple or pubescent, or occasionally pectinated in the male. Thorax squamous-villose, oblong, rather stout. Abdomen conical, extending more or less beyond the hind wings, attenuated and often acute at the tip in the male. Legs long, bare; spurs long. Wings rather long, moderately broad or rather narrow. Fore wings generally acute; exterior border moderately or very oblique.

Europe.

A. Alæ ochraceæ aut flavescentes.
  A. Alæ margine exteriore obscuro.
    a. Alæ luteæ. - - - - - trinalis, *Wien. Verz.*
    b. Alæ citrinæ. - - - - perpendiculalis, *Dup.*
  B. Alæ margine exteriore non obscuro.
    a. Alæ posticæ fascia pallida. - - lupulinalis, *Clerck.*
    b. Alæ posticæ fascia nulla pallida.
      a. Alæ lineis ferrugineis. - - aurantiacalis, *Fisch.-Rosl.*
      b. Alæ lineis cinereis aut fuscescentibus.
        i. Caput fuscum. - - - - pandalis, *Hübn.*
        ii. Caput non fuscum.
          * Alæ anticæ macula posteriore. flavalis, *Wien. Verz.*
          ** Alæ anticæ macula nulla obscuriore. hyalinalis, *Hübn.*
B. Alæ fusco-cinereæ.
  A. Alæ ex parte flavescente-albidæ. - lancealis, *Wien. Verz.*
  B. Alæ albido non variæ.
    a. Alæ fasciis nullis macularibus. - fuscalis, *Wien. Verz.*
    b. Alæ anticæ fasciis macularibus. - - asinalis, *Hübn.*
C. Alæ cinereæ. - - - - - - terrealis, *Treits.*
D. Alæ carneo-cinereæ. - - - - diffusalis, *Guen.*
E. Alæ flavescente-albidæ.
  A. Alæ lineis fuscescentibus. - - - verticalis, *Linn.?*

B. Alæ lineis nigricantibus,
A. Alæ linea submarginali nigricante. repandalis, *Wien. Verz.*
B. Alæ linea submarginali diffusa cinerea. perlucidalis, *Hübn.*
F. Alæ albæ, nigro maculatæ. - - - urticalis, *Linn.*

1. BOTYS REPANDALIS.

Alba; thorax obscurus; abdominis segmenta marginata; alæ lineis exteriore et submarginali nigricantibus, illa valde undulata, linea submarginali nigricante; anticæ testaceo tinctæ, linea interiore et reniformi nigricantibus.

Phalæna repandalis, *Wien. Verz.* 120, 2.
Phalæna repandata, *Fabr. Mant. Ins.* ii. 214, 245; *Ent. Syst.* iii. 2, 212, 308.
Phalæna-Geometra repandata, *Gmel. ed. Syst. Nat.* i. 5, 2485, 771.
Pyralis pallidalis, *Hübn. Pyral.* pl. 18, f. 115. *Treit. Schm.* vii. 59, 4. *Dup. Lép.* viii. 328, pl. 232, f. 7.
Epicorsia repandalis, *Hübn. Verz. Schm.* 355, 3402.
Botys repandalis, *Herr.-Sch. Eur. Schm.* iv. 27, 70. *Guen. Delt. et Pyral.* 329, 359.

France. Germany. Italy. Hungary.

2. BOTYS AURANTIACALIS.

Pallide ochracea, subtus alba; palpi porrecti, longiusculi; alæ anticæ lineis interiore et exteriore ferrugineis, hac valde flexa, illa undulata, reniformi angusta ferruginea; posticæ cinereæ, linea exteriore indistincta obscuriore.

Botys aurantiacalis, *Fisch.-Rosl. Schm.* 213, pl. 75, f. 3. *Herr.-Sch. Eur. Schm.* iv. 28, 76. *Guen. Delt. et Pyral.* 329, 360.

South France. Spain. Dalmatia. Greece.

a. Germany. From M. Heminghoffen's collection.

3. BOTYS LUPULINALIS.

Flavescens; palpi porrecti; antennæ maris robustæ; abdomen cinereum; alæ anticæ cervinæ, disco plus minusve flavescente indentata, lineis interiore et exteriore cervinis angulosis, umbria basi pallida; posticæ fascia abbreviata dilatata pallida.

Phalæna lupulinata, *Clerck, Icon.* pl. 9, f. 4.
Pyralis nubilalis, *Hübn. Pyral.* pl. 14, f. 94.
Pyralis silacealis, *Hübn. Pyral.* pl. 18, f. 116.
Pyralis glabralis, *Haw. Lep. Brit.* 380.
Botys silacealis, *Treit. Schm.* vii. 81, 2. *Frey. Schm.* i pl. 96. *Dup. Lép.* viii. 121. pl. 207, f. 4. *Herr.-Sch. Eur. Schm.* iv. 30, 87.
Perinephila silacealis, *Hübn. Verz. Schm.* 357, 3421.
Margaritia glabralis, *Steph. Ill. Brit. Haust.* iv. 52.

a. England. From Mr. Stephens' collection.
b, c. Europe. From M. Becker's collection.

4. Botys perpendiculalis.

Citrina; alæ apud marginem exteriorem fuscescentes, linea interiore interrupta, exteriore flexa; anticæ linea basali integra, lituris discalibus parvis.

Botys perpendiculalis, *Dup. Lép.* viii. 324, pl. 232, f. 5. *Guen., Delt. et Pyral.* 333, 371.

France.

a. England. From Mr. Stephens' collection.

5. Botys perlucidalis.

Testaceo-albida; alæ lineis interiore et exteriore nigricantibus denticulatis, hac undulata, linea submarginali diffusa cinerea, punctis marginalibus nigris; anticæ reniformi lunulata nigra.

Pyralis perlucidalis, *Hübn. Pyral.* pl. 22, f. 143.
Botys perlucidalis, *Treit. Schm.* vii. 62, 6. *Herr.-Sch. Eur. Schm.* iv. 29, 81, f. 89. *Guen. Delt. et Pyral.* 334, 372.
Glaphyria perlucidalis, *Hübn. Verz. Schm.* 357, 3422.

Austria. Dalmatia.

6. Botys pandalis.

Pallide flavescens aut pallide cinerea, subtus albo-cinerea; caput palpique supra fusca; alæ anticæ reniformi diffusa lineisque denticulatis cinereis, exteriore flexa; posticæ intus albo-cinereæ, lineis exteriore et submarginali denticulatis cinereis, puncto interiore fusco.

Pyralis verbascalis, *Hübn. Pyral.* pl. 9, f. 59.
Pyralis angustalis, *Haw. Lep. Brit.* 379.
Pyralis terminalis, *Haw. Lep. Brit.* 379.
Epicorsia pandalis, *Hübn. Verz. Schm.* 355, 3403.
Botys pandalis, *Treit. Schm.* vii. 103, 18. *Dup. Lép. Sup.* viii. 393, pl. 82, f. 2. *Herr.-Sch. Eur. Schm.* iv. 29, 79, f. 88.
Botys oblitalis, *Dup. Lép. Sup.* 396, pl. 82, f. 4.
Margaritia Thapsalis, *Steph. Ill. Brit. Haust.* iv. 50.
Margaritia angustalis, *Steph. Ill. Brit. Haust.* iv. 51.
Margaritia terminalis, *Steph. Ill. Brit. Haust.* iv. 51.

a—g. England. From Mr. Stephens' collection.
h—j. England.
k—n. Europe. From M. Becker's collection.
o. Germany. From M. Heminghoffen's collection.

7. Botys trinalis.

Lutea; alæ margine exteriore æneo-fusco; anticæ striga subcostali ferruginea, lineis interiore et exteriore fuscescentibus indistinctis, hac valde flexa, illa undulata, reniformi magnâ, orbiculari et gutta posteriore rotundis fuscis; posticæ pallidiores, linea exteriore incompleta lituraque interiore fuscescentibus.

Pyralis trinalis, *Wien. Verz.* 317, 47. *Hübn. Pyral.* pl. 11, f. 68. *Illig. N. Auss. des.* ii. 20, 19, 20. *Gotze, Ent. Beitr.* iii. 4. 73, 69.
Phalæna-Pyralis trinalis, *Gmel. ed. Syst. Nat.* i. 5, 2522, 926.
Phalæna trinalis, *Fabr. Mant. Ins.* ii. 218, 284; *Ent. Syst.* iii. 2, 226, 365.
Hapalia trinalis, *Hübn. Verz. Schm.* 355, 3394.
Botys trinalis, *Treit. Schm.* vii. 105, 19. *Dup. Lép.* viii. 136, pl. 218, f. 6. *Herr.-Sch. Eur. Schm.* iv. 31, 88. *Guen. Delt. et Pyral.* 334, 374.

a—c. Europe. From M. Becker's collection.

8. Botys flavalis.

Flavescens; alæ lineis exteriore et submarginali fuscescentibus, illa flexa; anticæ linea interiore indistincta, reniformi, orbiculari et macula posteriore fuscis; posticæ cinereæ, litura discali fusca.

Pyralis flavalis, *Wien. Verz.* 121, 7. *Fabr. Mant. Ins.* ii. 221, 303; *Ent. Syst* iii. 2, 293, 393. *Hübn. Pyral.* pl. 11, f. 69.
Phalæna-Pyralis flavalis, *Gmel. ed. Syst. Nat.* i. 5, 2524, 941.
Hapalia flavalis, *Hübn. Verz. Schm.* 355, 3395.
Botys flavalis, *Treit. Schm.* vii. 99, 15. *Dup. Lép.* viii. 127, pl. 217, f. 7, 8. *Herr.-Sch. Eur. Schm.* iv. 28, 77. *Guen. Delt. et Pyral.* 334, 375.
Botys lutealis, *Dup. Lép.* viii. 331, pl. 233, f. 1.
Botys citralis, *Podv. Herr.-Sch. Eur. Schm.* iv. 28.
Margaritia flavalis, *Steph. Ill. Brit. Haust.* iv. 52.
Lithosia lutea, *Schæff. Icon.* pl. 240, f. 7, 8.

a—n. England. From Mr. Stephens' collection.
o. England.
p—s. Europe. From M. Becker's collection.

9. Botys hyalinalis.

Luteo-flava; abdomen albo-cinereum; alæ lineis exteriore et submarginali denticulatis cinereis, illa flexa; anticæ linea interiore et reniformi cinereis; posticæ pallidiores.

Pyralis hyalinalis, *Hübn. Pyral.* pl. 11, f. 74. *Schr. Faun. Boic.* ii. 2, 64, 1718.
Hapalia hyalinalis, *Hübn. Verz. Schm.* 355, 3397.
Botys hyalinalis, *Treit. Schm.* vii. 100, 16. *Dup. Lép.* viii. 119, pl. 217, f. 3. *Eversm. Faun. Volg.* 470. *Herr.-Sch. Eur. Schm.* iv. 28, 78. *Guen. Delt. et Pyral.* 336, 378.
Margaritia hyalinalis, *Steph. Ill. Brit. Haust.* iv. 51.

a—g. England. From Mr. Stephens' collection.
h, i. England. Presented by J. C. Dale, Esq.
j—l. England.
m—q. Europe. From M. Becker's collection.

10. Botys verticalis.

Flavescente-albida; alæ lineis exteriore et submarginali angulosis fuscescentibus, illa valde flexa; anticæ linea interiore et reniformi angusta fuscescentibus; posticæ linea interiore e litura fuscescente.

——— ———, *Albin, Ins.* pl. 73, a, d. *Rai, Ins.* 257, 48. *Réaum. Ins.* ii. pl. 19, f. 1—5. *Röes. Ins.* i. *Phal,* 4, pl. 1, f. 4. *Geoff. Ins.* ii. 166, 112.

Phalæna-Pyralis verticalis? *Linn. Syst. Nat.* 2, 882, 335; *Faun. Suec.* 1353. *Gmel. ed. Syst. Nat.* i. 5, 2522, 335.
Pyralis verticalis,-*Wien. Verz.* 120, 1. *Fabr. Sp. Ins.* ii. 272, 180; *Mant. Ins.* ii. 219, 285; *Ent. Syst.* iii. 2, 227, 366. *Hübn. Pyral.* f. 57. *Schr. Faun. Boic.* 1707. *Haw. Lep. Brit.* 376. *Donov. Brit. Ins.* xvi. pl. 556.
Epicorsia Iridialis, *Hübn. Verz. Schm.* 355, 3460.
Botys verticalis, *Treit. Schm.* vii. 101, 17. *Dup. Lép.* viii. 116, pl. 217, f. 1. *Herr.-Sch. Eur. Schm.* iv. 29, 80. *Guen. Delt. et Pyral.* 337, 379.
Margaritia verticalis, *Steph. Ill. Brit. Haust.* iv. 48.

Guenée states that the *B. verticalis* of Linn. is identical with *Spilodes cinctalis.*

a—m. England. From Mr. Stephens' collection.
n. England. From Mr. King's collection.
o—q. England.
r—v. Europe. From M. Becker's collection.
u, w. Italy. From Dr. Leach's collection.
x—cc. Trenton Falls, New York. Presented by E. Doubleday, Esq.
dd, ee. Nova Scotia. From Lieut. Redman's collection.
ff. Orilla, West Canada. From Mr. Bush's collection.

The North American specimens are generally smaller than the European.

11. Botys lancealis.

Cinereo-fuscescens; alæ spatio medio flavescente-albido, lineis interiore et exteriore dentatis cinereo-fuscescentibus, hac flexa, lunulis marginalibus nigricantibus; anticæ reniformi e lineola arcuata nigra; posticæ fimbria albida.

Pyralis lancealis, *Wien. Verz.* 121.
Pyralis glabralis, *Hübn. Pyral.* pl. 18, f. 117.
Pyralis longalis, *Haw. Lep. Brit.* 379.
Botys lancealis, *Treit.* vii. 79, 1. *Dup. Lép.* viii. 111, pl. 216, f. 4. *Herr.-Sch. Eur. Schm.* iv. 29, 82. *Guen. Delt. et Pyral.* 338, 381.
Margaritia lancealis, *Steph. Ill. Brit. Haust.* iv. 48.
Perinephela glabralis, *Hübn. Verz. Schm.* 357, 3417.

a—c. England. From Mr. Stephens' collection.
d—g. England. From Mr. Stevens' collection.

h—j. England.
k, l. Scotland. From Mr. Dove's collection.
m, n. Europe. From M. Becker's collection.

12. Botys fuscalis.

Fuscescente-cinerea ; abdomen albo fasciatum ; alæ lineis interiore et exteriore margineque exteriore obscurioribus, linea marginali pallida ; anticæ linea interiore distincta, reniformi e lineola arcuata ; posticæ fimbria alba.

Pyralis fuscalis, *Wien. Verz.* 121, 8. *Ill. N. Auss. dess.* ii. 13, 8. *Gotze, Ent. Beytr.* iii, 4, 70, 42.
Pyralis cinerealis? *Fabr. Ent. Syst.* iii. 2, 230, 379. *Hübn. Pyral.* pl. 10, f. 66. *Haw. Lep. Brit.* 380.
Pyralis Julialis? *Schr. Faun. Boic.* 1712.
Perinephela fuscalis, *Hübn. Verz. Schm.* 357, 3419.
Botys fuscalis, *Treit. Schm.* vii. 96, 13. *Eversm. Faun. Volg.* 437, *Herr.-Sch. Eur. Schm.* iv. 27, 72. *Guen. Delt. et Pyral.* 339, 383.
Botys cinerealis, *Dup. Lép.* viii. 113, pl. 216, f. 6, 7.
Margaritia fuscalis, *Steph. Ill. Brit. Haust.* iv. 56.
Margaritia pulveralis, *Steph. Ill. Brit. Haust.* iv. 56.
Margaritia fimbrialis, *Steph. Ill. Brit. Haust.* iv. 56.

a—n. England. From Mr. Stephens' collection.
o—p. England.
q, r. Europe. From M. Becker's collection.

13. Botys terrealis.

Cinerea ; alæ linea exteriore undulata obscuriore pallido submarginata, linea marginali nigricante ; anticæ acutæ, linea interiore liturisque discalibus indistinctis.

Botys terrealis, *Treit. Schm.* vii. 110, 22. *Fisch. Rosl.* 214, pl. 75, f. 4. *Herr.-Sch. Eur. Schm.* 27, 71. *Guen. Delt. et Pyral.* 339, 384.
Pyralis terrealis, *Frey. N. Beitr.* v. 123, pl. 456.
Scopula borealis, *Curt. Brit. Ent.* 175.

Central France. Dalmatia. Hungary. Bohemia.

a. Wales. From Mr. Stevens' collection.
b—e. England.

14. Botys diffusalis.

Subcarneo-cinerea, gracilis; alæ anticæ linea interiore fusca antice abbreviata, linea exteriore nigra valde flexa, reniformi fusca; posticæ pallidiores, linea exteriore nigricante flexa postice attenuata.

Botys carnealis, *Dup. Lép.* viii. 322, pl. 232, f. 4.
Botys diffusalis, *Guen. Delt. et Pyral.* 340, 385.

South France. Spain.

15. Botys asinalis.

Cinerea; alæ linea submarginali fusca pallido submarginata; anticæ acutæ, fasciis tribus macularibus incompletis fuscis.

Pyralis asinalis, *Hübn. Pyral.* pl. 29, f. 185.
Mesographe asinalis, *Hübn. Verz. Schm.* 354, 3390.
Botys asinalis, *Dup. Lép.* vii. 2, 318, pl. 232, f. 1. *Zell. Ent. Zeit. Stett.* x. 231, 42. *Guen. Delt. et Pyral.* 340, 387.
Margaritia asinalis, *Steph. Ill. Brit. Haust.* iv. 472.

South France. Italy. Corsica.

a, *b*. Devonshire. Presented by W. R. H. Jordan, Esq.
c—*j*. England. From Mr. Stephens' collection.

16. Botys urticalis.

Lutea; thorax nigro maculatus; abdomen nigricans, albo fasciatum, apice luteum; alæ albæ, fasciis macularibus nigricantibus, fascia marginali nonnunquam integra.

——— ———, *Göed. Ins.* ii. pl. 13. *List. ed. Göed.* pl. 61. *Rai, Ins.* 222, 73. *Petiv. Gazoph.* pl. 32, f. 8. *Albin, Ins.* pl. 37, f. 60. *Réaum. Ins.* i. pl. 49, f. 17, 18. *Roës. Ins.* i. *Phal.* 4, pl. 14. *Harr. Ins.* xiii. pl. 6, f. i—p. *Geoff. Ins.* ii. 135. *Deg. Ins.* i. pl. 28, f. 18, 19. *Schæff. Elem.* pl. 98, f. 4; *Icon.* pl. 119, f. 1, 2.
Phalæna-Geometra urticata, *Linn. Faun. Suec.* 1297. *Gmel. ed. Syst. Nat.* i. 5, 2484, 272. *Scop. Ent. Carn.* 547.
Phalæna-Geometra hortulata, *Linn. Syst. Nat.* i. 529.
Phalæna urticata, *Fabr. Sp. Ins.* ii. 267, 154; *Mant. Ins.* ii. 213, 239; *Ent. Syst.* iii. 2, 209, 299. *Brahm, Ins.* 177. *Donov. Brit. Ins.* x. pl. 349.

Pyralis urticalis, *Wien. Verz.* 121, 12. *Hübn. Pyral.* f. 78. *Schr. Faun. Boic.* 1710. *Haw. Lep. Brit.* 382. *Müll. Faun. Fridr.* 51, 449; *Zool. Dan. Prodr.* 128, 1479. *Fuessl. Schw. Ins.* 40, 793.

Eurrhypara urticalis, *Hübn. Verz. Schm.* 360, 3451. *Steph. Ill. Brit. Haust.* iv. 44.

Botys urticalis, *Treit. Schm.* vii. 106, 20. *Dup. Lép.* viii. 107, pl. 216, f. 3. *Herr.-Sch. Eur. Schm.* iv. 27, 69. *Guen. Delt. et Pyral.* 342, 390.

a—*j*. England. From Mr. Stephens' collection.
k—*n*. England.
o, *p*. Europe. From M. Becker's collection.
q, *r*. Europe.

The two following are doubtful species:—

17. Botys? ephippialis.

Alæ anticæ cinereæ, basi, fascia media lata strigaque ante marginem apicalem, fusco-ferrugineis, puncto centrali nigro; posticæ obscure cinereæ, striga postica fimbriaque albis, fascia ante marginem apicalem nigra.

Botys ephippialis, *Zett. Ins. Lapp.* 972, 3.

Norwegian Lapland.

18. Botys? arcticalis.

Alæ pallidæ, anticæ macula media, striga pone medium et fascia intra marginem posticum in apicem descendente ochraceis.

Botys arcticalis, *Zett. Ins. Lapp.* 972, 4.

Lapland.

North America.

A. Alæ luteæ aut flavescentes.
  A. Alæ albo non maculatæ.
    a. Alæ lineis duabus. — ponderalis, *Guen.*
    b. Alæ lineis quinque.
      a. Alæ cinereo non conspersæ.
        i. Abdomen maculatum. — oxydalis, *Guen.*
        ii. Abdomen non maculatum — flavidalis, *Guen.*

b. Alæ cinereo conspersæ. - - - extricalis, *Guen.*
B. Alæ albo maculatæ. - - - - argyralis, *Hübn.*
B. Alæ cinereæ.
A. Palpi ascendentes.
A. Palpi articulo 3o brevi. - - Theseusalis, *Walk.*
B. Palpi articulo 3o longiusculo. - - Æglealis, *Walk.*
B. Palpi non ascendentes.
A. Pedes non dilatati.
a. Alæ fusco non conspersæ.
i. Alæ lineis nigricantibus. - - Siriusalis, *Walk.*
ii. Alæ lineis fuscis. - - - - Licealis, *Walk.*
iii. Alæ lineis cinereis.
* Abdomen alas posticas sat superans.
Mysippusalis, *Walk.*
** Abdomen alas posticas valde superans.
Periusalis, *Walk.*
b. Alæ fusco conspersæ. - - - Arsaltealis, *Walk.*
B. Pedes subdilatati. - - - - Thymetusalis, *Walk.*

19. Botys ponderalis.

Lutea, magna, robusta, subtus albida; caput antice, palpi supra, abdominis fasciæ, alarum linea submarginalis, dentatæ fimbriaque purpureo-rufæ; alæ anticæ dimidio purpureo-rufo; posticæ linea exteriore undulata purpureo-rufa.

Botys ponderalis, *Guen. Delt. et Pyral.* 328, 356.

North America?

20. Botys oxydalis.

Mas. *Crocea-flava, subtus flavescente-alba; palpi supra, thoracis tegulæ basi abdominisque maculæ nonnullæ ferruginea; pedes antici nigro fasciati; alæ anticæ apice subquadratæ, lineis quinque concisis undulatis costa venis apice punctoque discali saturate rufo-ferrugineis; posticæ lineis tribus 2a bifurcata.*

Botys oxydalis, *Guen. Delt. et Pyral.* 328, 357.

Georgia.

21. Botys flavidalis.

Mas. *Straminea; palpi supra thoracisque tegulæ basi rufescente-fusca; alæ anticæ costa venisque fulvo marginatis, lineis quinque concisis undulatis punctoque discali rufescente-fuscis; posticæ lineis tribus, 2a furcata.*

Botys flavidalis, *Guen. Delt. et Pyral.* 329, 358.

America.

22. Botys extricalis.

Mas. *Pallidissime rufescente-flava; palpi bicolores; alæ cinereo conspersæ, linea communi saturatiore dentata valde sinuata; anticæ linea interiore denticulata, punctis duobus discalibus obscuris sat approximatis; posticæ spatio pallidiore lineam mediam includente, margine exteriore cinerascente.*

Botys extricalis, *Guen. Delt. et Pyral.* 338, 382.

North America.

23. Botys argyralis.

Lutea aut cervina; abdomen cinereum; alæ anticæ maculis sex albis, apicalibus triplicatis; alæ posticæ pallide cervinæ; fimbria alba.

Diastictis argyralis (Pyralis vulgaris, Palpita ambigua), *Hübn. Samml. Exot. Schmett.* i. 21, 57, f. 113, 114.

Botys argyralis, *Guen. Delt. et Pyral.* 341, 388.

a—c. Georgia. From Mr. Milne's collection.

24. Botys Theseusalis.

Mas. *Testaceo-cinerea, subtus alba; palpi breves, lati, ascendentes, supra fusci; antennæ graciles, glabræ; abdomen lanceolatum, alas posticas longe superans, segmentis albido marginatis; alæ lineis interiore et exteriore punctisque marginalibus fuscis, fimbria postice alba; anticæ linea exteriore valde flexa, orbiculari et reniformi fuscis.*

Male. Nearly allied to *B. verticalis*. Testaceous-cinereous, white beneath. Palpi short, broad, ascending, brown above. Antennæ slender, smooth. Abdomen lanceolate, extending far beyond

the hind wings; hind borders of the segments whitish. Wings iridescent; interior and exterior lines brown, irregular, the latter much bent in the fore wings; marginal points brown; fringe white hindward. Fore wings with the orbicular and reniform marks brown, rather large, not excavated, their disks paler. Length of the body 8 lines; of the wings 18 lines.

a. United States. Presented by E. Doubleday, Esq.

25. Botys Siriusalis.

Fœm. *Cinerea; palpi breves, porrecti; antennæ sat validæ; abdomen alas posticas paullo superans; alæ anticæ lineis interiore et exteriore nigricantibus, hac valde denticulata pallido extus marginata, reniformi nigricante diffusa, punctis marginalibus nigris.*

Female. Cinereous, much paler beneath. Palpi short, porrect. Antennæ rather stout. Abdomen extending a little beyond the hind wings. Fore wings with the interior and exterior lines blackish, the former very indistinct, the latter much denticulated, with a pale outer border; reniform mark blackish, diffuse; marginal points black; fringe pale cinereous. Hind wings with the exterior line almost obsolete above, very distinct beneath, as it is also in the fore wings. Length of the body 4½ lines; of the wings 9 lines.

a. United States. Presented by E. Doubleday, Esq.

26. Botys Lucealis.

Mas. *Testaceo-cinerea; palpi porrecti, sat graciles; pedes glabri, graciles; alæ lineis interiore et exteriore fuscis diffusis undulatis denticulatis pallido submarginatis; antice orbiculari et reniformi obscure fuscis, hac extus excavata, illa parva, punctis marginalibus nigricantibus.*

Male. Cinereous, with a slight testaceous tinge, paler beneath. Palpi porrect, rather slender. Abdomen extending beyond the hind wings. Legs smooth, slender. Wings with the interior and exterior lines brown, diffuse, undulating, denticulated, somewhat pale bordered. Fore wings with the orbicular and reniform marks dark brown, the former small, the latter excavated on the outer side; marginal points blackish. Length of the body 5 lines; of the wings 12 lines.

a. United States. Presented by E. Doubleday, Esq.

27. Botys Mysippusalis.

Mas. *Cinerea, gracilis; palpi lati, porrecti; antennæ graciles; alæ linea exteriore denticulata indistincta obscure cinerea; anticæ orbiculari et reniformi lineaque interiore obscure cinereis valde indistinctis, linea exteriore valde flexa.*

Male. Cinereous, slender, whitish beneath. Palpi broad, porrect, slender. Abdomen extending rather beyond the hind wings. Wings with the exterior line denticulated, dark cinereous, indistinct. Fore wings with the interior line and the orbicular and reniform marks dark cinereous, very indistinct; exterior line much bent. Length of the body 5 lines; of the wings 12 lines.

a, b. United States. Presented by E. Doubleday, Esq.
c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

28. Botys Periusalis.

Mas. *Cinerea; palpi fusci, porrecti, subtus albi; antennæ pubescentes; abdomen alas posticas fere dimidio superans; alæ lineis interiore et exteriore obscure cinereis undulatis indistinctis, linea marginali obscure cinerea, fimbria extus albida; anticæ reniformi e lunula nigra.*

Male. Cinereous, whitish beneath. Palpi brown, porrect, white beneath. Antennæ pubescent. Abdomen extending for nearly half its length beyond the hind wings. Wings with the interior and exterior lines dark cinereous, undulating, indistinct, much bent in the fore wings; marginal line dark cinereous; fringe whitish exteriorly. Fore wings with the reniform mark represented by a black lunule. This species much resembles *B. Mysippusalis*, but the wings are narrower, and the fore wings less acute. Length of the body 6 lines; of the wings 12 lines.

a. United States. Presented by E. Doubleday, Esq.

29. Botys Arsaltealis.

Mas. *Pallide fuscescente-cinerea; palpi breves, porrecti, supra fusci; abdomen alas posticas paullo superans, segmentis albo marginatis; pedes antici fusco fasciati; alæ fusco conspersæ, linea marginali fusca, fimbria pallide cinerea; anticæ subacutæ, orbiculari et reniformi fuscescentibus.*

Male. Pale brownish cinereous, white beneath. Palpi short, porrect, brown above. Antennæ smooth. Abdomen extending but little beyond the hind wings; hind borders of the segments white. Fore legs with brown bands. Wings iridescent, moderately broad, minutely speckled with brown; marginal line brown; fringe pale cinereous. Fore wings slightly acute; orbicular and reniform marks brownish, the former small, the latter large, elongate. Length of the body 5 lines; of the wings 12 lines.

a. United States. Presented by E. Doubleday, Esq.

30. Botys Thymetusalis.

Fœm. *Pallide purpurascente-cinerea; palpi porrecti, sat graciles; antennæ sat validæ; abdomen alas posticas paullo superans; pedes subdilatati; alæ lineis interiore et exteriore fuscis, pallido marginatis; anticæ macula costali trigona pallida; posticæ spatio medio pallido.*

Female. Cinereous, with a lilac tinge. Palpi porrect, rather slender. Antennæ rather stout. Abdomen extending a little beyond the hind wings. Legs somewhat dilated. Wings with the interior and exterior lines brown, pale bordered; the latter in the fore wings slightly denticulated, and with the pale border dilated into a triangular costal spot; fringe pale cinereous. Hind wings with the space between the interior and exterior lines paler than the wings elsewhere. Length of the body 5 lines; of the wings 13 lines.

a. United States. Presented by E. Doubleday, Esq.

31. Botys Æglealis.

Fœm. *Pallide subtestaceo-cinerea; palpi ascendentes; articulus 3us lanceolatus, 2i dimidio longior; abdominis segmenta albo marginata; tibiæ anticæ apice fuscescentes; alæ iridescentes, lineis interiore et exteriore fuscis subdenticulatis, linea marginali fusca; anticæ vix acutæ, linea exteriore valde flexa, orbiculari guttulari, reniformi lunulata.*

Female. Pale cinereous, with a slight testaceous tinge, white beneath. Palpi ascending a little higher than the vertex; third joint lanceolate, more than half the length of the second. Antennæ slender. Abdomen extending a little beyond the hind wings; hind borders of the segments white. Legs smooth; fore tibiæ brownish

towards the tips. Wings moderately broad, iridescent; interior and exterior lines brown, slightly denticulated; marginal line brown, regular. Fore wings hardly acute, with the exterior line much bent; orbicular and reniform marks brown, the former a dot, the latter lunulate. Length of the body 4½ lines; of the wings 10 lines.

a. United States. Presented by E. Doubleday, Esq.

Mexico.

32. Botys Scyllalis.

Mas. *Lutea; palpi breves, porrecti, non lati, extus fuscescentes; antennæ apud medium subconvolutæ; thoracis latera antica rufescentia; abdominis fasciculus apicalis fuscescens; pedes antici crassi, supra nigricantes; alæ lineis interiore et exteriore rufescentibus diffusis subdenticulatis subundulatis, punctis marginalibus nigricantibus elongatis; anticæ acutæ, costa et reniformi maxima rufescentibus.*

Male. Luteous, paler beneath. Palpi short, porrect, not broad, brownish exteriorly. Antennæ slightly convoluted in the middle. Thorax reddish on each side in front. Abdomen extending some distance beyond the hind wings; apical tuft brownish. Fore legs thick, blackish above. Wings with the interior and exterior lines reddish, diffuse, slightly denticulated and undulating; marginal points blackish, elongated. Fore wings acute, reddish along the costa; a middle line visible behind the reniform mark, which is also reddish and very large. Length of the body 5½ lines; of the wings 11 lines.

a. Mexico. From Mr. Argent's collection.

West Indies.

A. Alæ anticæ lituris nullis semihyalinis.
  A. Alæ anticæ margine exteriore non flexo.
    a. Thoracis tegulæ non longissimæ.
      a. Alæ albæ. - - - - - - ostrealis, *Guen.*
      b. Alæ albidæ. - - - - - - detritalis, *Guen.*
      c. Alæ albidæ, extus fuscescente-cinereæ. Thalialis, *Walk.*
      d. Alæ cinereæ.
        i. Palpi albido fasciati. - - - Pyrenealis, *Walk.*

ii. Palpi albido non fasciati.
* Alæ nebulosæ. - - - Vestalis, *Walk.*
** Alæ non nebulosæ. - - Creonalis, *Walk.*
e. Alæ rufescentes. - - - - Gealis, *Walk.*
f. Alæ luteæ aut flavescentes.
i. Abdomen macula apicali argentea. xanthialis, *Guen.*
ii. Abdomen macula nulla argentea.
* Alæ anticæ costa non obscura.
† Tibiæ non fasciculatæ.
‡ Pedes antici non fasciati.
§ Femora intermedia non incrassata.
× Alæ non breves.
0 Palpi ascendentes. - Lycialis, *Walk.*
00 Palpi porrecti. - Eratalis, *Walk.*
×× Alæ breviusculæ.
0 Alæ luteæ. - Cœcilialis, *Walk.*
00 Alæ pallidæ testaceæ.
Belusalis, *Walk.*
§§ Femora intermedia incrassata.
Œdipodalis, *Guen.*
‡‡ Pedes antici nigro fasciati. - Dryalis, *Walk.*
†† *Tibiæ fasciculatæ.* - - Helcitalis, *Walk.*
** *Alæ anticæ costa obscura.*
† *Alæ posticæ annulo discali.* Philenoralis, *Walk.*
†† *Alæ posticæ annulo discali nullo.*
‡ *Alæ anticæ margine exteriore obscuro.*
cubanalis, *Guen.*
‡‡ Alæ anticæ margine exteriore non obscuro.
§ Abdomen fascia subapicali. Hecalialis, *Walk.*
§§ Abdomen fascia nulla subapicali.
× Corpus nigricans. - marialis, *Poey.*
×× Corpus non nigricans.
0 Alæ posticæ macula subcostali.
campalis, *Guen.*
00 Alæ posticæ macula nulla subcostali.
gastralis, *Guen.*
g. Alæ fuscæ.
i. Alæ posticæ angulo interiore non producto.
* Alæ purpurascente tinctæ.
† *Alæ linea marginali pallida* - delimitalis, *Guen.*
†† *Alæ linea marginali nigricante.* Agavealis, *Walk.*
** Alæ non purpurascente tinctæ.
† Abdomen non fasciatum.

‡ Pedes non lutei. - - vecordalis, *Guen.*
‡‡ Pedes lutei. - - - Peleusalis, *Walk.*
†† Abdomen fasciatum. - - Jasonalis, *Walk.*
ii. Alæ posticæ angulo interiore producto.
Eurytalis, *Walk.*
B. Thoracis tegulæ longissimæ. - - Glaucusalis, *Walk.*
B. Alæ anticæ margine exteriore flexo. - Gnomalis, *Walk.*
B. Alæ anticæ lituris semihyalinis. - - Ceresalis, *Walk.*

Many genera are, as yet, included in this genus, and several of them are indicated by the groups into which the West Indian, South American, and Asiatic species of *Botys* are here divided.

Group 1.

Œdipodalis.

Group 2.

Campalis, cubanalis, marialis, gastralis, vecordalis.

Group 3.

Xanthialis.

Group 4.

Dryalis, Helcitalis, Hecalialis, Glaucusalis, detritalis, Lycialis, Pyrenealis, Creonalis, Vestalis.

Group 5.

Philenoralis.

Group 6.

Eratalis, Cœcilialis.

Group 7.

Gealis.

Group 8.

Ostrealis.

Group 9.

Agavealis, Jasonalis.

Group 10.

Delimitalis, Gnomalis, Peleusalis.

Group 11.

Eurytalis.

Group 12.

Ceresalis.

Group 13.

Belusalis.

Group 14.

Thalialis.

33. Botys œdipodalis.

Flava, subtus alba; caput antice palpique supra cervina; abdomen ochraceo vittatum; pedes antici femoribus tibiisque cervinis, tarsis albis apice cervinis; femora intermedia incrassata, extus cervino lineata; alæ linea exteriore cinerea indistincta valde undulata, linea marginali ochracea; anticæ valde acutæ, costa saturatiore.

Botys œdipodalis, *Guen. Delt. et Pyral.* 336, 377.

Haiti.

a. Jamaica. From Mr. Gosse's collection.
b, *c*. St. Domingo. From Mr. Tweedie's collection.
d. St. Domingo. From M. Sallé's collection.
e—g. Venezuela. From Mr. Dyson's collection.
h. Honduras. From Mr. Dyson's collection.

34. Botys xanthialis.

Mas. *Croceo-flava; abdomen purpureo conspersum, apice purpureum nigro lineatum, macula apicali trigona argentea; alæ fascia lata marginali nigricante-rubra, linea marginali fimbriaque flavis, lineis interiore et exteriore saturate-purpureis, linea submarginali nigra, reniformi bene determinata.*

Botys xanthialis, *Guen. Delt. et Pyral.* 343, 395.

Cuba.

35. Botys campalis.

Pallide citrina; palpi extus fusci; pedes antici fusco fasciati; alæ linea exteriore indistincta fuscescente valde undulata; anticæ costa fusca, orbiculari et reniformi nigricantibus subquadratis, striga exteriore subcostali arcuata fusca; posticæ macula subcostali nigra, apice fuscescentes.

Botys campalis, *Guen. Delt. et Pyral.* 344, 397.

a, *b*. Jamaica. From Mr. Gosse's collection.
c, *d*. St. Domingo. From Mr. Tweedie's collection.

36. Botys cubanalis.

Fœm. B. campali *affinis, straminea; alæ anticæ apice acutæ, costa fasciaque marginali apud apicem dilatata nigricantibus.*

Botys cubanalis, *Guen. Delt. et Pyral.* 345, 398.

Cuba.

37. Botys gastralis.

Fœm. B. concordali *simillima, major; alæ magis virides; posticæ angulo interiore magis producto, linea media e strigis plus lunulatis; abdomen punctis duobus basalibus nigris, segmentis nigro marginatis.*

Botys gastralis, *Guen. Delt. et Pyral.* 346, 400.

Haiti.

Var.? Bright lemon-colour, white beneath. Head and fore part of the thorax brown, tinged with blue. Palpi brown, white beneath, except at the tips. Wings very iridescent, with the two lines very incomplete and composed of brown lunules; the exterior one much bent in the fore wings; the latter with a brown blue and purple-tinged costal stripe, which is partly separated from a large apical spot of the same hue; orbicular and reniform marks distinct, the former small, the latter forming an elongated ringlet. Hind wings with a pale brown apical spot.

a, *b*. St. Domingo. From Mr. Tweedie's collection.
c. St. Domingo. From Mr. Hearse's collection.

38. Botys marialis.

B. concordali *simillima; corpus nigricans; antennæ ciliatæ; alæ anticæ vitta costali basi dilatata, macula magna apicali maculaque minore apud angulum interiorem cyaneo-nigricantibus; posticæ macula apicali, punctis duobus apud angulum interiorem albo lineatis.*

Botys marialis, *Poey, Cart. Lep. Cuba. Guen. Delt. et Pyral.* 346, 401.

Cuba.

Var.? Ferruginous, white beneath. Abdomen brown above, with metallic-blue reflections. Wings lemon-colour, with a large apical ferruginous spot, which is slightly bordered with black. Fore wings ferruginous, and tinged with blue along the costa and towards the base, except by the interior border, the latter with a broad ferruginous streak towards the interior angle.

a, b. St. Domingo. From Mr. Tweedie's collection.

39. Botys vecordalis.

Fœm. B. Lelexali *simillima; palpi latiores, magis squamosi; corpus brevius; alæ fundo pallide flavescente-fusco, subiridescentes, lituris minus concisis.*

Botys vecordalis, *Guen. Delt. et Pyral.* 348, 408.

Haiti.

40. Botys delimitalis.

Violaceo-fusca; alæ lineis duabus obscurioribus pallido submarginatis, 1a arcuata tremula, linea marginali pallida apud venas dilatata; anticæ linea 2a valde denticulata, orbiculari punctiformi, reniformi magna vaga; posticæ linea 2a abbreviata. Mas.—*Antennæ pubescentes, robustæ, apud medium deviæ et nodosæ; femora antica basi dilatata concava; tibiæ tarsique fusco cincta.*

Botys delimitalis, *Guen. Delt. et Pyral.* 351, 416.

Haiti.

41. Botys ostrealis.

Alba; corpus cervino varium; palpi fusci, porrecti; alæ lineis (antice quinque, posticæ tribus), cervinis denticulatis nonnunquam plus minusve incompletis; anticæ orbiculari et reniformi pluris costaque cervinis.

Botys ostrealis, *Guen. Delt. et Pyral.* 327, 355.

a. Jamaica. From Mr. Gosse's collection.
b, *c.* St. Domingo. From Mr. Tweedie's collection.
d. Venezuela. From Mr. Dyson's collection.

42. Botys detritalis.

Mas.—*Albida; caput et thorax anticus cervina; oculi albo marginati; palpi fusci, porrecti, breves, lati, obtusi; antennæ pubescentes; abdomen alas posticas fere dimidio superans, punctis duobus basalibus fuscis; alæ angustæ, iridescentes, semihyalinæ, apice fuscescentes, lineis duabus fuscescentibus valde indistinctis; anticæ acutæ, apud costam fuscescentes, linea exteriore valde flexa, orbiculari et reniformi e guttis duabus nigricantibus; posticæ puncto discali nigro.* Fœm.—*Albido-flavescens, gracilis; pedes albi, graciles, glabri; alæ iridescentes, semihyalinæ, lineis interiore et exteriore fuscescentibus, hac valde flexa; anticæ acutæ, costa marginegue exteriore purpurascentibus, orbiculari et reniformi nigris parvis, linea exteriore apud costam nigra; posticæ puncto discali nigro, fascia submarginali purpurascente indistincta.*

Botys detritalis, *Guen. Delt. et Pyral.* 347, 405.

Brazil. Colombia. Guiana.

a. St. Domingo. From Mr. Tweedie's collection.
b. Villa Nova. From Mr. Bates' collection.
c. Honduras. From Mr. Milne's collection.

43. Botys Lycialis.

Fœm. *Testacea, subtus alba; palpi ascendentes, breves, lati, articulo 3o minimo; alæ lineis interiore et exteriore nigricantibus, hac flexa, linea submarginali subobsoleta; anticæ subacutæ, linea interiore vix undulata, orbiculari et reniformi e guttis duabus nigris; posticæ linea interiore fere obsoleta.*

Female. Closely allied to *B. detritalis.* Testaceous, white beneath. Palpi ascending, short, broad; third joint extremely minute. Antennæ slender. Abdomen extending very little beyond the hind wings. Legs slender, smooth. Wings moderately broad, with the interior and exterior lines blackish, the latter deeply undulating; marginal line almost obsolete. Fore wings slightly acute; interior line hardly undulating; orbicular and reniform marks represented by two black dots. Hind wings with the interior line only appearing as a blackish dot near the costa. Length of the body 4 lines; of the wings 10 lines.

a, b. St. Domingo. From Mr. Tweedie's collection.
c. Jamaica.

*

44. Botys Dryalis.

Mas et fœm. *Lutea aut ochracea; palpi oblique ascendentes, basi albi; pedes antici nigro fasciati; alæ iridescentes, lineis interiore et exteriore purpurascente-cinereis sat diffusis, punctis marginalibus nigricantibus elongatis indistinctis; anticæ linea exteriore valde flexa, orbiculari punctiformi, reniformi angusta sat magna.*

Male and female. Luteous or ochraceous, white beneath. Palpi obliquely ascending, white towards the base. Abdomen of the male extending rather beyond the hind wings. Fore legs with black bands. Wings iridescent; interior and exterior lines purplish cinereous, rather diffuse, the latter very much bent in the fore wings; marginal points blackish, elongated, indistinct; fringe cinereous, shining. Fore wings with the orbicular mark punctiform; reniform rather large and narrow. Length of the body 5 lines; of the wings 12 lines.

a—c. St. Domingo. From Mr. Tweedie's collection.

45. Botys Hecalialis.

Mas. *Læte ochracea; palpi erecti, articulo 3o longi-conico tenui parvo; antennæ non pubescentes; abdomen fascia subapicali fusco albo marginata; pedes glabri; tibiis tarsisque anticis albis nigricante fasciatis; alæ linea exteriore subundulata lineaque marginali nigris, fimbria albida; anticæ linea basali lineaque subundulata interiore nigris, reniformi e striga brevi lata nigra.*

Male. Bright ochraceous. Palpi erect, ascending as high as the vertex; third joint elongate-conical, slender, small. Antennæ moderately stout, not pubescent. Abdomen extending somewhat beyond the hind wings, with a brown, white-bordered band near the tip. Legs smooth; fore tibiæ and fore tarsi white, with blackish bands. Wings with an exterior slightly undulating black line; marginal line black, very distinct and regular; fringe whitish. Fore wings acute, with a black basal line, and a black, slightly undulating interior line, which are broader than the exterior line; reniform mark represented by a short black streak. Length of the body 6 lines; of the wings 14 lines.

a, b. St. Domingo. From Mr. Tweedie's collection.

46. Botys Helcitalis.

Mas et fœm. *Ochraceo-cervina, sat robusta, subtus albida; palpi fusci, ascendentes, subtus basi albi; tibiæ intermediæ tumidæ; tibiæ anticæ fascia lata fusca; alæ lineis interiore et exteriore nigricantibus, hac valde flexa, fimbria albida; anticæ macula disculi albida, reniformi e guttis duabus nigricantibus.* Mas. *—Antennæ pubescentes; abdomen alas posticas longe superans; tibiæ intermediæ fasciculatæ.*

Male and *female.* Ochraceous fawn-colour, rather stout, whitish beneath. Palpi brown, ascending, white beneath towards the base. Antennæ of the male pubescent. Abdomen of the male extending some distance beyond the hind wings, that of the female shorter. Legs smooth; middle tibiæ somewhat tumid, tufted in the male; fore tibiæ with a broad brown band. Wings iridescent, moderately broad; interior and exterior lines blackish, approximate, except in the fore part of the fore wings, where they are very remote from each other, the exterior one being extremely bent; fringe whitish. Fore wings acute, with a whitish spot between the exterior line and the reniform mark, which is represented by two blackish dots. Length of the body 5—6 lines; of the wings 14 lines.

a—d. St. Domingo. From Mr. Tweedie's collection.
e, f. Jamaica. From Mr. Gosse's collection.

47. Botys Agavealis.

Fœm. *Cinereo-fusca, purpurascente tincta, sat gracilis, subtus alba; palpi breves, lati, porrecti; abdomen alas posticas sat superans; alæ elongatæ, linea exteriore albido-cinerea valde*

undulata intus nigricante marginata, linea marginali nigricante tenuissima, fimbria albido-cinerea; anticæ linea interiore et reniformi lunulata nigricantibus; posticæ linea interiore antice conspicua.

Female. Cinereous-brown, purple-tinged, rather slender, white beneath. Palpi short, broad, porrect. Antennæ slender. Abdomen extending some distance beyond the hind wings. Legs smooth, slender. Wings elongate; exterior line whitish cinereous, very deeply undulating, blackish-bordered on the interior side; marginal line blackish, very slender; fringe whitish cinereous. Fore wings with the interior line and the lunulate reniform mark blackish. Hind wings with the interior line only apparent in front. Length of the body 6 lines; of the wings 14 lines.

a. St. Domingo. From Mr. Tweedie's collection.

48. Botys Peleusalis.

Mas. *Fusca, subtus alba; palpi lati, ascendentes, palpi maxillares distincti; antennæ pubescentes; abdomen alas posticas longissime superans, subtus album; pedes pallide lutei; alæ elongatæ, lineis subobsoletis obscurioribus, fimbria apice albida; anticæ peracutæ, lineis tribus, margine exteriore vix flexo; posticæ lineis duabus.*

Male. Brown, white beneath. Palpi broad, ascending, applied to the head, pale luteous in front at the base. Maxillary palpi distinct. Antennæ pubescent. Abdomen extending very far beyond the hind wings, white beneath. Legs pale luteous, long, smooth, slender. Wings elongate; fringe whitish exteriorly. Fore wings very acute, with three very indistinct darker lines; two of which also appear on the hind wings; exterior border extremely oblique, hardly bent. Length of the body 7 lines; of the wings 16 lines.

a. St. Domingo. From Mr. Tweedie's collection.

49. Botys Jasonalis.

Mas. *Cinereo-fusca, subtus alba; palpi breves, lati, ascendentes, articulo 3o indistincto; antennæ pubescentes; abdomen alas posticas longe superans, fasciis nigris albo marginatis, fasciculo apicali nigro longiusculo; pedes pallide lutei, tribus anticis nigro fasciatis; alæ elongatæ, lineis duabus nigris; anticæ acutæ, linea exteriore valde flexa, linea basali nigra, macula discali albida subquadrata; posticæ linea exteriore abbreviata.*

Male. Cinereous-brown, white beneath. Palpi short, broad, ascending, white in front at the base; third joint indistinct. Antennæ pubescent. Abdomen extending far beyond the hind wings; segments with black white-bordered bands on their hind borders; apical tuft black, rather long. Legs pale luteous, long, slender, smooth; fore tibiæ with a black band near their tips. Wings elongate; interior and exterior lines black, the latter much bent in the fore wings, abbreviated hindward in the hind wings; marginal line black; fringe testaceous at the base, whitish exteriorly, interlined with blackish. Fore wings acute, with a black line near the base; reniform represented by a whitish subquadrate spot; exterior border extremely oblique. Length of the body 7 lines; of the wings 14 lines.

a. St. Domingo. From Mr. Tweedie's collection.

50. Botys Eurytalis.

Mas. *Fusca; antennæ robustæ, apud medium incrassatæ serrato-fimbriatæ; alæ cupreo tinctæ, linea interiore nigricante, linea marginali albida; anticæ subfalcatæ, litura discali albida; posticæ angulo interiore producto.*

Male. Brown, stout, more cinereous beneath. Palpi thick, ascending; third joint small, conical. Antennæ robust, somewhat thickened and serrate-fringed in the middle. Abdomen extending a little beyond the hind wings. Legs rather stout. Wings with a cupreous tinge, rather broad, nearly triangular, the exterior border of the fore wings being nearly in a line with that of the hind wings; a blackish diffuse indistinct slightly undulating middle line; a purplish mark on each disk. Fore wings acute. Hind wings with the interior angle much prolonged. Length of the body 7 lines; of the wings 14 lines.

a. Jamaica. Presented by E. Doubleday, Esq.
b. Jamaica. From Mr. Gosse's collection.
c. St. Domingo. From Mr. Tweedie's collection.

51. Botys Glaucusalis.

Mas. *Pallide lutea; caput album, fascia tenui fusca; palpi lati, ascendentes, caput superantes, valde obtusi, supra fusci; antennæ pubescentes; thoracis tegulæ longissimæ; abdomen guttis duabus subapicalibus nigricantibus; pedes antici nigro guttati; tibiæ posticæ pilis nigris albisque dense fasciculatæ;*

alæ lineis interiore et exteriore vix undulatis lineaque marginali fuscis, fimbria albida basi fusca ; anticæ acutæ, linea exteriore valde flexa, reniformi fusca lunulata.

Male. Pale luteous, white beneath. Head white, with a slender brown band on the vertex. Palpi broad, brown, mostly white in front, ascending much higher than the vertex, extremely obtuse at the tips. Antennæ slender, pubescent. Tegulæ of the thorax extremely long, extending beyond half the length of the abdomen. Abdomen extending a little beyond the hind wings, with a blackish dot on each side near the tip. Fore legs with a black spot on each coxa and on each knee ; fore tibiæ black towards the tips. Hind tibiæ with a dense tuft of long black and white hairs. Wings with the interior and exterior lines brown, slight, hardly undulating ; marginal line brown, regular ; fringe whitish, brown at the base. Fore wings acute, with the exterior line very much bent ; reniform mark brown, lunulate. Length of the body 5 lines ; of the wings 12 lines.

a. Jamaica. From Mr. Gosse's collection.

52. BOTYS PHILINORALIS.

Mas. *Lutea ; palpi breves, lati, porrecti, supra nigricantes ; antennæ non pubescentes ; thoracis latera antica rufescentia ; pedes albi, glabri, longiusculi, sat graciles ; alæ longæ, angustæ, lineis interiore et exteriore roseis deviis incompletis, linea marginali rufescente-purpurea lata bene determinata, fimbria pallide cinerea ; anticæ maculis duabus discalibus magnis subquadratis rufescente-cinereis obscuro marginatis, costa rufescente-purpurea ; posticæ annulo discali rufo.*

Male. Luteous, pale beneath. Palpi short, broad, porrect, blackish above. Antennæ bare, slender. Thorax reddish on each side in front. Abdomen extending beyond the hind wings ; hind borders of the segments paler. Legs white, smooth, rather long and slender. Wings long, narrow ; interior and exterior lines rosy red, slender, irregular, incomplete, especially the interior one ; marginal line reddish purple, broad and well defined ; fringe pale cinereous. Fore wings acute, with two large subquadrate reddish cinereous dark-bordered discal spots ; costa reddish purple. Hind wings with a red discal ringlet. Length of the body 4 lines ; of the wings 12 lines.

Jamaica. From Mr. Gosse's collection.

53. Botys Gealis.

Mas. *Rufescens, gracillima ; palpi breves, lati, porrecti ; antennæ pubescentes ; abdomen apice albido-testaceum ; pedes albi, longi, glabri ; alæ perangustæ, linea submarginali nigricante arcuata, punctis marginalibus nigris ; anticæ maculis quatuor discalibus subquadratis, duabus luteis duabusque obscure rufescentibus nigricante marginatis ; posticæ macula una nigricante marginata.*

Male. Reddish, very slender, pale beneath. Head white beneath. Palpi short, broad, porrect. Antennæ pubescent. Abdomen whitish testaceous at the tip, extending far beyond the hind wings. Legs white, long, slender, smooth. Wings very narrow; submarginal line blackish, curved; marginal points black. Fore wings with two luteous discal subquadrate spots, the larger one between two large dark reddish, blackish-bordered subquadrate spots, the smaller one adjoining the interior side of the first of the last-mentioned spots. Hind wings with one blackish-bordered spot, smaller than those of the fore wings. Length of the body 5 lines; of the wings 12 lines.

a. Jamaica. From Mr. Gosse's collection.

54. Botys Eratalis.

Mas. *Pallide lutea ; caput albo bilineatum ; palpi porrecti, articulo 3o gracili acuto ; antennæ non pubescentes ; abdomen apice albidum ; alæ lineis interiore et exteriore fuscescentibus indistinctis, linea submarginali valde diffusa, linea marginali lutea ; anticæ linea exteriore valde flexa, reniformi perangusta.*

Male. Pale luteous, paler beneath. Head with a white line on each side of the front. Palpi porrect; third joint slender, acute. Antennæ bare, slender. Abdomen extending somewhat beyond the hind wings; tip whitish. Legs smooth, white; spurs long. Wings with the interior and exterior lines brownish, indistinct, slender, the latter extremely bent in the fore wings, interrupted in the bend: submarginal line rather darker than the ground hue, very diffuse; marginal line luteous. Fore wings with the reniform mark brown, very narrow, appearing like part of the exterior line. Length of the body 4 lines; of the wings 8 lines.

a. Jamaica. From Mr. Gosse's collection.

55. Botys Creonalis.

Mas et fœm. *Cinerea, gracilis; palpi fusci, breves, lati, porrecti, subtus albi; pedes glabri, graciles; alæ nitentes, sat angustæ, lineis tribus fuscis vix arcuatis, linea marginali fusca duplicata; anticæ apud costam obscuriores, linea exteriore disjuncta, reniformi perangusta obscure fusca, litura costali albida; posticæ lineis tribus apud angulum interiorem approximatis.*

Male and female. Cinereous, slender, whitish beneath. Palpi broad, short, brown, porrect, white beneath. Antennæ bare, slender. Abdomen extending rather beyond the hind wings. Legs smooth, slender; spurs very long. Wings shining, rather narrow, with the interior, exterior and submarginal lines brown, slender, well defined, hardly curved, converging towards the interior angle of the hind wings; marginal line brown, double. Fore wings acute, darker along the costa; the exterior line dislocated in the middle, and with a whitish costal mark on its exterior side; reniform mark dark brown, very narrow, somewhat lunulate. Length of the body 4½ lines; of the wings 9 lines.

a, b. St. Domingo. From Mr. Tweedie's collection.

56. Botys Vestalis.

Cinerea; palpi porrecti, pilosi, apice obtusi; abdominis segmenta albido marginata; pedes glabri, sat robusti; alæ nebulosæ lineis interiore et exteriore nigricantibus denticulatis indistinctis pallido submarginatis, punctis marginalibus fuscis diffusis; anticæ linea exteriore valde flexa, orbiculari punctiformi et reniformi lunulata nigricantibus. Mas.—*Antennæ pubescentes.*

Male and female. Cinereous, slender, paler beneath. Palpi porrect, short, broad, obtuse, white beneath. Antennæ pubescent in the male. Abdomen extending rather beyond the hind wings; hind borders of the segments whitish. Legs smooth, rather stout; spurs long. Wings clouded, with the interior and exterior lines blackish, denticulated, indistinct, slightly pale-bordered, the latter extremely bent in the fore wings; marginal points brown, diffuse. Fore wings acute; orbicular and reniform marks blackish, the former punctiform, the latter lunulate. Length of the body 5 lines; of the wings 10 lines.

a, b. Jamaica. From Mr. Gosse's collection.

Var. Female. Brownish cinereous, whitish beneath. Wings almost opaque; interior and exterior lines brown, rather indistinct; marginal line brown, undetermined; fringe whitish, testaceous at the base, interlined with brown. Fore wings with the orbicular and reniform marks brown, the former guttiform, the latter narrow.

Rio Janeiro.

c. Honduras. From Mr. Dyson's collection.

57. Botys Pyrenealis.

Fœm. *Cinerea, gracilis, vix fuscescens; oculi albo cincti; palpi ascendentes, albo bifasciati; palpi maxillares parvi, albo fasciati; thoracis latera albo lineata; abdominis segmenta albido marginata; alæ anticæ acutæ, costa alba, lineis interiore et exteriore fuscescentibus indistinctis subundulatis, linea marginali alba nigro submarginata, striga alba guttaque nigra apicalibus.*

Female. Cinereous, slender, with a slight tinge of pale brown. Head white about the eyes. Palpi short, ascending, with two white bands. Maxillary palpi small, with one white band. Antennæ bare, slender. Thorax with a white line on each side. Abdomen extending very little beyond the hind wings; hind borders of the segments whitish. Legs white, slender, smooth; spurs long. Fore wings acute, with the interior and exterior lines brownish, indistinct, slightly undulating; costa mostly white; a white slightly black-bordered marginal line; a white apical streak and a black apical dot. Hind wings without markings. Length of the body 4 lines; of the wings 10 lines.

a. St. Domingo. From Mr. Tweedie's collection.

58. Botys Gnomalis.

Fœm. *Ferruginea, sat robusta, subtus albida; palpi subarcuati, oblique ascendentes, articulo 3o minimo; pedes pallide ochracei; alæ elongatæ, lineis interiore et exteriore indistinctis subarcuatis lineaque marginali nigricantibus, fimbria alba basi fusca; anticæ subfalcatæ, linea exteriore valde flexa, reniformi nigricante indistincta, margine exteriore flexo, fimbria ex parte fusca; posticæ linea exteriore postice abbreviata.*

Female. Ferruginous, rather stout, whitish beneath. Palpi slightly curved, ascending obliquely as high as the vertex; third

joint very small. Antennæ slender. Legs pale ochraceous. Wings elongate, paler and with a cinereous tinge beneath; interior and exterior lines blackish, indistinct, slightly curved; marginal line blackish, very slight; fringe white, brown at the base. Fore wings subfalcate; exterior line much bent; reniform mark blackish, indistinct; exterior border bent in the middle; fringe brown at the tips and about the bend. Hind wings with the exterior line abbreviated hindward. Length of the body 6 lines; of the wings 12 lines.

a. St. Domingo. From Mr. Tweedie's collection.

59. Botys? Ceresalis.

Mas. *Pallide cervina, subtus alba; palpi oblique ascendentes, articulo 3o conico distincto minimo; antennæ non pubescentes; abdomen alas posticas vix superans, segmentis albo marginatis; pedes anteriores cervino fasciatæ; alæ iridescentes, linea exteriore undulata fuscescente, punctis marginalibus nigricantibus; anticæ vix acutæ, fascia basali obliqua liturisque quinque subcostalibus albis semihyalinis.*

Male. Pale fawn-colour, white beneath. Palpi moderately broad, obliquely ascending to a level with the vertex; third joint conical, distinct, but very minute. Antennæ bare. Abdomen hardly extending beyond the hind wings; hind borders of the segments white. Legs smooth; anterior femora and tibiæ with fawn-coloured bands. Wings very iridescent, with a slight brownish undulating exterior line; marginal points blackish, forming a continuous line towards the interior angle of the hind wings. Fore wings hardly acute, with a white oblique semihyaline band near the base, and with five white semihyaline marks near the costa; the second obliquely rhomboidal, much larger than the others, occupying the site of the reniform spot; costa testaceous, except towards the tip. Length of the body 4½ lines; of the wings 12 lines.

a, *b*. St. Domingo. From Mr. Tweedie's collection.

60. Botys? Cœcilialis.

Fœm. *Lutea; palpi porrecti, capite non breviores; abdomen alas posticas perpaullo superans; pedes glabri; alæ breviusculæ, non nitentes, fascia exteriore lineaque submarginali*

diffusa pallide rufescentibus, illius margine obscuriore, linea marginali tenuissima rufescente, anticæ linea interiore rufescente, orbiculari punctiformi et reniformi lunulata fuscis.

Female. Luteous, whitish beneath. Palpi porrect, as long as the head. Antennæ bare, slender. Abdomen extending very little beyond the hind wings. Legs smooth; spurs long. Wings rather short, not shining, with a pale reddish darker-bordered exterior band, with a pale reddish diffuse submarginal line, and with a very slender reddish marginal line. Fore wings with a reddish interior line; orbicular and reniform marks brown, the first punctiform, the second forming a lunule by the interior side of the exterior band. Length of the body 2¼ lines; of the wings 7 lines.

a. St. Domingo. From Mr. Tweedie's collection.

61. Botys? Thalialis.

Mas. *Fuscescente-cinerea; palpi porrecti; antennæ validæ vix serratæ; abdomen segmentis albido marginatis, fasciculo apicali albido longiusculo; alæ albidæ, spatio exteriore fuscescente-cinereo fasciam diffusam albidam includente; anticæ vix acutæ, fascia interiore obliqua maculaque subcostali elongata fuscescente-cinereis.*

Male. Brownish cinereous, whitish beneath. Palpi short, porrect. Antennæ stout, hardly serrate. Abdomen extending a little beyond the hind wings; hind borders of the segments and apical tuft whitish, the latter rather long. Legs whitish, smooth, moderately stout; spurs long. Wings whitish; exterior part brownish cinereous, including a diffuse whitish band. Fore wings hardly acute, with a brownish cinereous band near the base, from which it slants hindward; an elongated brownish cinereous subcostal spot at a little before the middle of the length of the wing. Length of the body 3 lines; of the wings 8 lines.

a. St. Domingo. From Mr. Tweedie's collection.

62. Botys? Belusalis.

Fœm. *Pallide testacea, gracilis; caput et thorax anticus fusca; palpi porrecti; abdominis segmenta albido marginata; alæ breviusculæ, fasciis duabus deviis albis fusco marginatis, macula marginali fusca, linea marginali nigra: anticæ punctis costalibus nigris, linea basali obliqua.*

Female. Pale testaceous, slender, whitish beneath. Head above and fore part of the thorax brown. Palpi porrect. Antennæ smooth, slender. Abdomen extending a little beyond the hind wings; hind borders of the segments whitish. Legs smooth; spurs long. Wings rather short, with two irregular white bands, which are bordered with brown along both sides; marginal line black, with a brown spot on each wing between it and the middle of the exterior border. Fore wings rectangular at the tips, with black points along the costa; an oblique basal line. Length of the body 3 lines; of the wings 7 lines.

a. St. Domingo. From Mr. Tweedie's collection.

South America.

A. Alæ lineis nullis.
  A. Alæ rubræ.
    A. Alæ maculis flavis. - - - Evippealis, *Walk.*
    B. Alæ maculis vitreis. - - - - Perseusalis, *Walk.*
  B. Alæ non rubræ.
    A. Alæ obscuræ. - - - - Elathealis, *Walk.*
    B. Alæ pallidæ.
      a. Alæ non notatæ.
        i. Alæ albæ. - - - - striginervalis, *Guen.*
        ii. Alæ luteæ. - - - - - Acastalis, *Walk.*
      b. Alæ notatæ.
        i. Alæ cinereæ.
          * Alæ basi ochraceæ. - - Cephalis, *Walk.*
          ** Alæ basi non ochraceæ. - - Phrynealis, *Walk.*
        ii. Alæ fuscæ. - - - - Eucharisalis, *Walk.*
        iii. Alæ luteæ aut flavæ.
          * Alæ plagiatæ.
            † Femora postica fasciculata. - lithosialis, *Guen.*
            †† Femora postica non fasciculata. Hortalis, *Walk.*
          ** Alæ marginatæ.
            † Alæ margine lato. - - Eubulealis, *Walk.*
            †† Alæ margine angusto. - Pyrrhusalis, *Walk.*
B. Alæ lineatæ.
  A. Antennæ breviusculæ.
    A. Alæ roseo variæ. - - - - - rosinalis, *Guen.*
    B. Alæ non roseæ. - - - - - leucalis, *Guen.*
  B. Antennæ longiusculæ.

A. Alæ anticæ fascia subrosea. - - incomptalis, *Hübn.*
B. Alæ fascia nulla rosea.
a. Alæ anticæ maculis aut plagis costalibus.
i. Alæ anticæ maculis costalibus flavis.
* Alæ anticæ angustæ. - - Orontesalis, *Walk.*
** Alæ anticæ amplæ. - - - Philetalis, *Walk.*
ii. Alæ anticæ maculis costalibus albis. Asiusalis, *Walk.*
b. Alæ anticæ maculis nullis costalibus.
i. Alæ fascia marginali integra.
* Alæ fascia marginali marginata.
† Fascia marginalis non excisa. - finitalis, *Guen.*
†† Fascia marginalis excisa. - Mopsalis, *Walk.*
** Alæ fascia marginali non marginata.
† Alæ basi albæ. - - - Cerialis, *Cram.*
†† Alæ non basi albæ.
‡ Alæ posticæ macula apicali. Pactolalis, *Guen.*
‡‡ Alæ posticæ macula nulla apicali.
exigualis, *Hübn.*
ii. Alæ fascia marginali nulla aut interrupta.
* Alæ anticæ plaga apicali.
† Alæ plus minusve flavescentes.
‡ Alæ anticæ plaga nigricante. inguinalis, *Guen.*
‡‡ Alæ anticæ plaga non nigricante.
§ Alæ anticæ plaga ad angulum interiorem producta.
× Alæ anticæ costa flava.
Quirinalis, *Walk.*
×× Alæ anticæ costa purpurea.
concordalis, *Hübn.*
§§ Alæ anticæ plaga ad angulum interiorem non producta.
× Alæ anticæ macula discali albo signata. - - Thalloalis, *Walk.*
×× Alæ anticæ macula discali albo non signata.
0 Statura robusta.
→ Alæ anticæ plaga apicali venosa. - Amandalis, *Cram.*
→→ Alæ anticæ plaga apicali non venosa. - amplalis, *Guen.*
00 Statura gracilis.
→ Alæ posticæ gutta nulla discali.

++ Alæ plaga apicali purpurea. Peranthusalis, *Walk.*
++++ Alæ plaga apicali fusca. Hortalis, *Walk.*
-+-+ Alæ posticæ gutta discali. Niavialis, *Walk.*
†† Alæ non flavescentes. - Xiphialis, *Walk.*
** Alæ anticæ plaga nulla apicali.
† Alæ lineis pallidis.
‡ Alæ anticæ linea exteriore valde flexa.
§ Palpi porrecti. - - Sylvialis, *Walk.*
§§ Palpi ascendentes. - Zoilusalis, *Walk.*
‡‡ Alæ anticæ linea non aut vix flexa. Dorisalis, *Walk.*
§ Alæ posticæ linea marginali alba.
§§ Alæ posticæ linea nulla marginali alba. Codrusalis, *Walk.*
†† Alæ lineis obscuris.
‡ Alæ maculis vitreis.
§ Alæ maculis plurimis vitreis.
× Alæ ferrugineæ. fenestrinalis, *Guen.*
×× Alæ ochraceæ. - Nysalis, *Walk.*
××× Alæ purpurascentes. Odiusalis, *Walk.*
§§ Alæ maculis paucis vitreis.
× Alæ cinereo-fuscæ.
0 Alæ posticæ macula nulla vitrea. anormalis, *Guen.*
00 Alæ posticæ macula vitrea. Agenoralis, *Walk.*
×× Alæ testaceæ. - alvinalis, *Guen.*
××× Alæ ochraceæ. - Mnemusalis, *Walk.*
‡‡ Alæ maculis nullis vitreis.
§ Alæ posticæ non omnino albæ.
× Alæ posticæ albæ.
0 Alæ posticæ annulo nullo.
-+ Alæ fascia nulla purpurea.
++ Alæ posticæ basi hyalinæ. - Pieralis, *Walk.*
++++ Alæ posticæ basi obscuræ. Rhexialis, *Walk.*

→→ Alæ fascia purpurea. Syphaxalis, *Walk.*
00 Alæ posticæ annulo discali.
Lybialis, *Guen.*
×× Alæ posticæ non albæ.
0 Alæ posticæ annulo discali.
→ Alæ posticæ semihyalinæ.
++ Thorax fuscus. - Amatalis, *Walk.*
++++ Thorax non fuscus. - hirtalis, *Guen.*
→→ Alæ posticæ opacæ.
++ Alæ anticæ costa rufescente.
Turnusalis, *Walk.*
++++ Alæ anticæ costa non rufescente.
Protenoralis, *Walk.*
00 Alæ posticæ annulo nullo.
→ Alæ fuscæ aut cinereo-fuscæ.
++ Alæ anticæ macula apicali testacea.
Cocalalis, *Cram.*
++++ Alæ anticæ macula nulla apicali.
ᔓ Alæ posticæ angulo interiore producto.
. Palpi fusci, unicolores.
prolongalis, *Guen.*
.. Palpi subtus albi.
sectalis, *Guen.*
ᔓᔓ Alæ posticæ angulo interiore non producto.
. Alæ posticæ margine roseo. - illiberalis, *Hübn.*
.. Alæ posticæ margine non roseo.
. Alæ anticæ plica costali.
amissalis, *Guen.*
.. Alæ anticæ plica nulla costali.
... Alæ anticæ costa subflavescente. liberalis, *Guen.*
..... Alæ anticæ costa non flavescente.
.... Abdomen luteum.
Pandaralis, *Walk.*
..... Abdomen obscurum.
..... Alæ posticæ basi pallidiores. - infuscalis, *Guen.*

..... Alæ posticæ basi non pallidiores.
..... Palpi ascendentes.
Damonalis, *Walk.*
.... Palpi porrecti.
phæopteralis, *Guen.*
+-+ Alæ albidæ.
++ Alæ anticæ subfalcatæ.
ᔓ Alæ lineis pallidissime fuscis.
Electralis, *Walk.*
ᔓᔓ Alæ lineis nigricantibus.
Cœneusalis, *Walk.*
++++ Alæ anticæ non falcatæ.
ᔓ Alæ punctis marginalibus nigris.
Melitealis, *Walk.*
ᔓᔓ Alæ punctis marginalibus nullis.
. Alæ anticæ costa non ochracea. Phileal is, *Walk.*
.. Alæ anticæ costa ochracea.
Cypræalis, *Walk.*
-+-+-+ Alæ cinereæ aut purpurascente-cinereæ.
++ Alæ anticæ non quadratæ.
illutalis, *Guen.*
ᔓ Alæ lineis indistinctis.
ᔓᔓ Alæ lineis distinctis.
Tytiusalis, *Walk.*
++++ Alæ anticæ quadratæ.
Hellicalis, *Walk.*
-+-+-+-+ Alæ testaceo-cinereæ. - Medonalis, *Walk*
-+-+-+-+-+ Alæ testaceæ, aut luteæ, aut cervinæ.
++ Alæ margine rufescente.
Cambogialis, *Guen.*
++++ Alæ margine non rufescente.
ᔓ Alæ anticæ vitta subcostali.
alialis, *Guen.*
ᔓᔓ Alæ anticæ vitta nulla subcostali.
= Alæ pallide cervinæ.
Lelexalis, *Cram.*
=== Alæ non pallide cervinæ.
. Palpi porrecti.
.. Alæ anticæ reniformi pallido notata. Tritialis, *Wk.*
... Alæ anticæ reniformi non notata.

... Alæ non conspersæ.
.... Alæ anticæ non falcatæ.
..... Alæ anticæ costa non convexa.
..... Corpus validum.
Belialis, *Walk.*
.... Corpus gracile.
..... Alæ pallide flavæ.
Eupalusalis, *Walk.*
.... Alæ non flavæ.
Thalesalis, *Walk.*
.... Alæ anticæ costa convexa.
Claudiusalis, *Walk.*
.... Alæ anticæ subfalcalæ.
Nerissalis, *Walk.*
... ... Alæ conspersæ.
Sabalis, *Walk.*
.. Palpi ascendentes.
.. Alæ cervinæ.
Remusalis, *Walk.*
.. .. Alæ luteo-flavæ.
Polytesalis, *Walk.*
.. .. .. Alæ testaceæ.
Chlorisalis, *Walk.*
+ + + + + + Alæ ochraceo-albæ.
silicalis, *Guen.*
§§ Alæ posticæ omnino albæ.
Lysanderalis, *Walk.*

The species will form the following groups:—

Group 1.

Lithosialis.

Group 2.

Amplalis, Amandalis, cambogialis, illutalis, finitalis, Mnemusalis, Mopsalis, Xiphialis, Belusalis, Eubulealis, Nerissalis, Philealis, Cyprælis, Tritialis, Remusalis, Polytesalis, Medonalis, Thalisalis, Acastalis, Pyrrhusalis, Electralis, Chlorisalis, Melitealis, Belialis, Lysanderalis, Zoilusalis, Syphaxalis, Cœneusalis, Tytiusalis, Eupalusalis.

Group 3.

Fenestrinalis, Nysalis.

Group 4.

Leucalis, striginervalis.

Group 5.

Rosinalis.

Group 6.

Hirtalis.

Group 7.

Concordalis, inguinalis, pactolalis, alialis, Hortalis, Quirinalis, Thalloalis, Peranthusalis, Niavialis.

Group 8.

Lelexalis, phæopteralis.

Group 9.

Silicalis, liberalis, illiberalis, infuscalis, Orontesalis, Elatheaiis, Sylvialis, Dorisalis, Codrusalis, Agenoralis, Damonalis, Amissalis, Pandaralis, Eucharisalis, Ænippealis, exigualis.

Group 10.

Anormalis.

Group 11.

Alvinalis, prolongalis, sectalis.

Group 12.

Philetalis.

Group 13.

Evippealis.

Group 14.

Persiusalis.

Group 15.

Cephalis, Rhexialis, Lybialis, Amatalis.

Group 16.

Asiusalis.

Group 17.

Odiusalis.

Group 18.

Pieralis.

Group 19.

Turnusalis, Protenoralis, Claudiusalis.

Group 20.

Phrynealis.

Group 21.

Hellicalis.

Group 22.

Sabalis.

63. Botys? lithosialis.

Mas. *Fulvo-flava; palpi nigricante notati; antennæ filiformes; abdomen apice valde acutum; femora postica dense fasciculata; alæ fimbria nigricante; anticæ macula apicali trigona nigricante-flavo divisa in lituram spatulatam usque ad discum producta, nebula apud angulum interiorem; postice margine maculari nigricante.*

Botys? lithosialis, *Guen. Delt. et Pyral.* 325, 350.

Brazil.

64. Botys amplalis.

Lutea, subtus alba; caput fuscum; palpi fusci, ascendentes, breves, lati, subtus albi; pedes albi, tibiis anticis fuscis albo cinctis; alæ lineis duabus e guttis nonnullis nigricantibus, linea marginali e lunulis fuscis; anticæ costa cervina, plaga apicali purpurea, orbiculari et reniformi nigricantibus, hujus disco luteo.

Botys amplalis, *Guen. Delt. et Pyral.* 330, 361.
Botys Amandalis, *var.?*

Cayenne. Surinam.

a. Venezuela. From Mr. Dyson's collection.
b. Villa Nova. From Mr. Bates' collection.
c. Pará. From Mr. Bates' collection.
d. Port Natal. From M. Becker's collection.

65. Botys Amandalis.

Lutea; alæ guttis discalibus elongatis plagaque apicali nigris; anticæ acutæ, subfalcatæ, plaga apicali e venis divisa strigaque transversa connexis, reniformi elongata subquadrata nigra.

Phalæna-Pyralis Amando, *Cram. Pap. Exot.* iii. 92, pl. 247, f. E.
Sylepta Amandalis, *Hübn. Verz. Schm.* 356, 3407.
Botys Amandalis, *Guen. Delt. et Pyral.* 330, 361.
Surinam.

66. Botys Cambogialis.

Mas et fœm. *Crocco-flava; palpi albo et flavo-fuscescente varii; antennæ subpubescentes; alæ margine fimbriaque rufescentibus; anticæ lineis duabus denticulatis pallidissime fuscis, exteriore valde flexa, macula discali vacua indistincta; posticæ striga arcuata lineaque brevi.*

Botys Cambogialis, *Guen. Delt. et Pyral.* 331, 365.
Brazil.

67. Botys illutalis.

Pallide lutea, subtus alba; oculi albo cincti; palpi cervini, porrecti, subtus albi; alæ iridescentes, semihyalinæ, margine exteriore testaceo opaco, lineis interiore, exteriore et marginali cinereis indistinctis; anticæ acutæ; costa testacea opaca.

Botys illutalis, *Guen. Delt. et Pyral.* 333, 370.

Var.? Mas. *Cinereo-testacea; oculi albo marginati; palpi porrecti, cervini, subtus albi; pedes antici cervino fasciati; alæ purpurascente-cinereæ, semihyalinæ, lineis interiore et exteriore subobscurioribus valde indistinctis, hac valde flexa, margine exteriore subochraceo linea indistincta fuscescente, fimbria alba basi fusca; anticæ apud costam testaceæ, orbiculari et reniformi nigricantibus, hac albo interlineata, margine interiore testaceo dense piloso.*

Male. Cinereous-testaceous, whitish beneath. Head white about the eyes. Palpi porrect, fawn-colour, much compressed, as long as the head, white beneath. Abdomen extending rather beyond the hind wings. Legs smooth; fore legs with fawn-coloured bands. Wings purplish cinereous, semihyaline; interior and exterior lines a little darker, very indistinct, the latter as usual much bent; exterior border slightly ochraceous, with an indistinct brownish line; fringe white, brown at the base. Fore wings testaceous along the costa; orbicular and reniform marks blackish; the latter narrow, interlined with white. Hind wings testaceous and thickly pilose near the interior border. Length of the body 8 lines; of the wings 18 lines.

a, *b*. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.
c, *d*. Villa Nova. From Mr. Bates' collection.
e. Parà. From Mr. Bates' collection.

68. Botys finitalis.

Var.? Mas. *Pallide cervina, gracilis; palpi fusci, porrecti, latiusculi, subtus albi; antennæ pubescentes; pectus antice album; pedes glabri, femoribus tibiisque anticis supra fuscis; alæ flavæ, iridescentes, semihyalinæ, fascia marginali pallide purpurascente intus fusco marginata, linea exteriore fusca denticulata undulata, linea marginali flava fusco punctata; anticæ acutæ, costa fasciaque basali diffusa cervinis, orbiculari et reniformi cervino marginatis, gutta postica cervina.*

Botys finitalis, *Guen. Delt. et Pyral.* 335, 376.

Var.? *Male.* Pale fawn-colour, slender, whitish beneath. Palpi brown, porrect, rather broad, white beneath, nearly as long as the head; joints indistinct. Antennæ pubescent. Pectus white in front. Abdomen extending rather far beyond the hind wings. Legs smooth; fore femora and fore tibiæ brown above. Wings yellow, iridescent, semihyaline, with a lilac marginal band which is bounded on the inner side by a straight brown line; exterior line brown, denticulated, undulating; interior line incomplete; marginal line yellow, with brown points; fringe cinereous. Fore wings acute, fawn-coloured along the costa, and with a diffuse basal fawn-coloured line; orbicular and reniform marks with fawn-coloured borders; a fawn-coloured dot behind the latter. Length of the body 7 lines; of the wings 14 lines.

Brazil. In Mr. Saunders' collection.

69. Botys Mnemusalis.

Mas. *Ochracea, subtus alba; palpi ascendentes, subarcuati, non lati, articulo 3o distincto; antennæ pubescentes; pedes albi, glabri; antici ex parte ochracei; alæ apud discum semihyalinæ, linea exteriore purpurascente-fusca valde obliqua; anticæ acutæ, lineis duabus interioribus incompletis fuscis, linea exteriore flexa, reniformi ochracea fusco marginata; posticæ macula discali purpurascente-fusca pallido punctata.*

Male. Ochraceous, white beneath. Palpi ascending, slightly curved, not broad, white beneath at the base; third joint conical, minute, distinct. Antennæ pubescent. Abdomen extending for one-third of its length beyond the hind wings; apical tuft white on each side, rather long. Legs white, smooth; fore legs partly ochraceous. Wings elongated, mostly semihyaline in the disk; exterior line purplish brown, very oblique, bent in the fore wings, partly double and denticulated in the hind wings; marginal line brownish, interrupted by the veins. Fore wings acute, with two incomplete interior brown lines; reniform mark ochraceous, bordered with brown on each side. Hind wings with a purplish brown discal spot, including a pale point, corresponding to the orbicular mark. Length of the body 8 lines; of the wings 16 lines.

Amazon Region. In Mr. Saunders' collection.

Fœm. *Abdomen testaceo-cinereum, segmentis albo marginatis; alæ semihyalinæ, linea marginali fusca; anticæ lineis purpurascente-fuscis incompletis, spatio marginali diffuse purpurascente-fuscescente; posticæ linea interiore e macula transversa fusca, linea exteriore ex parte duplicata et denticulata.*

Female. Abdomen testaceous-cinereous; hind borders of the segments white. Wings with the exterior line purplish-brown, incomplete in the fore wings, partly double and denticulated in the hind wings; marginal line brown. Fore wings with an incomplete purplish-brown interior line; orbicular and reniform marks ochraceous, brown-bordered; space between the exterior line and the exterior border diffusedly purplish brownish. Hind wings with the interior line represented by a transverse brown spot. Length of the body 8 lines; of the wings 20 lines.

a. Ega. From Mr. Bates' collection.

70. Botys Mopsalis.

Fœm. *Pallide flava, gracilis; caput subtus et pectus anticum candida; palpi porrecti, breves, fusci, subtus albi; thorax antice subcervinus; alæ elongatæ, semihyalinæ, valde iridescentes, fascia marginali albida intus nigricante marginata, lineis interiore et exteriore fuscis guttulariibus; anticæ acutæ, orbiculari et reniformi guttaque postica fuscis.*

Female. Pale yellow, whitish beneath, slender. Head beneath and fore part of the pectus pure white. Palpi brown, porrect, short, moderately broad, white beneath; joints indistinct. Thorax slightly fawn-colour in front. Abdomen extending very little beyond the hind wings. Legs smooth, slender. Wings elongate, semihyaline, very iridescent, whitish along the exterior border, this hue limited by a blackish diffuse line; interior and exterior lines brown, slight, mostly composed of minute dots. Fore wings acute, with the exterior line much bent; orbicular and reniform marks brown, the former with another brown dot behind it. Length of the body 4 lines; of the wings 10 lines.

a. Venezuela. From Mr. Dyson's collection.

71. Botys Xiphialis.

Mas. *Albida, gracilis; palpi arcuati, graciles, fuscescente bifasciati; antennæ subpubescentes; thorace antice fuscus; abdomen maculis lateralibus aut fasciis fuscis; tibiæ posticæ latæ, albo nigroque fimbriatæ; tibiæ anticæ fusco fasciatæ; alæ iridescentes, subhyalinæ, plaga apiculi fusca, lineis interiore et exteriore fuscis, hac valde undulata, illa valde incompleta; anticæ apud costam testaceæ, linea basali fusca, lituris apud angulum interiorem diffusis fuscescentibus, orbiculari et reniformi maximis; posticæ linea interiore late interrupta.*

Allied to *B. verticalis*. *Male.* Whitish, slender. Palpi curved, ascending, applied to the head, with two brownish bands; third joint conical. Antennæ very minutely pubescent. Thorax brown along the fore border. Abdomen extending far beyond the hind wings, with brown lateral spots, which form bands towards the tip. Hind tibiæ broad, fringed with white and black hairs; fore tibiæ with a brown band. Wings iridescent, nearly hyaline, with a brown apical patch, which is much largest in the fore wings; interior and exterior line brown, the former very incomplete, the latter

very undulating. Fore wings testaceous along the costa, with a brown basal line, and with some diffuse brownish marks along the interior border; orbicular and reniform marks brown-bordered, the latter very large, with the whitish part very narrow, and especially so in the middle. Hind wings with the interior line widely interrupted. Length of the body 8 lines; of the wings 18 lines.

a. Rio Janeiro. From Mr. Stevens' collection.

72. Botys Eubulealis.

Mas. *Purpurascente-fusca, gracilis, subtus albida; palpi arcuati, ascendentes, subtus basi albi; antennæ pubescentes; abdomen pallide cervinum; pedes albi, glabri, graciles; alæ pallide flavi, iridescentes, margine exteriore purpurascente-cinereo, fimbria albido-cinerea; anticæ acutæ, costa lata purpurascente-cinerea, reniformi fusca.*

Male. Purplish-brown, slender, whitish beneath. Palpi curved, ascending to the vertex, not broad, white beneath at the base; third joint extremely minute. Antennæ pubescent. Abdomen pale fawn-colour above, extending some distance beyond the hind wings. Legs smooth, slender, white. Wings pale yellow, iridescent, with a regular purplish cinereous border; fringe whitish cinereous. Fore wings acute, broadly purplish cinereous along the costa, this stripe partly including the brown reniform mark. Length of the body 4½ lines; of the wings 10 lines.

Brazil. In Mr. Saunders' collection.

73. Botys Nerissalis.

Mas. *Albido-flava, gracillima; palpi porrecti, cervini, subtus albi, non lati; antennæ glabræ; alæ lineis interiore et exteriore nigricantibus, hac valde undulata, linea submarginali denticulata, diffusa; anticæ acutæ, costa pallide ferruginea, orbiculari punctiformi, reniformi e striga tenui; posticæ pallidiores, linea submarginali subobsoleta.*

Male. Whitish yellow, very slender, whitish beneath. Palpi porrect, fawn-colour, white beneath, nearly as long as the head, not broad. Antennæ smooth. Abdomen extending far beyond the hind wings. Legs smooth, slender. Wings with the interior and exterior lines blackish, slight, the latter very undulating; submar-

ginal line denticulated, diffuse, almost obsolete in the hind wings, which are paler than the fore wings. Fore wings acute, pale ferruginous along part of the costa; orbicular mark punctiform; reniform distinguished by a slender streak. Length of the body 4½ lines; of the wings 9 lines.

Brazil. In Mr. Saunders' collection.

74. Botys Phillealis.

Fœm. *Albido-cinerea, gracilis; caput et thorax anticus pallide cervina; palpi breves, lati, porrecti, supra fusci; pedes glabris; alæ iridescentes, semihyalinæ, lineis interiore et exteriore fuscis interruptis; anticæ acutæ, costa margineque exteriore subcervinis, linea exteriore flexa apud costam nigra subdilatata, orbiculari et reniformi nigris parvis; posticæ linea interiore apud marginem nigra.*

Female. Whitish cinereous, slender, white beneath. Head and fore part of the thorax pale fawn-colour. Palpi brown, short, broad, porrect, white beneath; joints indistinct. Abdomen extending a little beyond the hind wings. Legs white, smooth. Wings iridescent, semihyaline; interior and exterior lines brown, interrupted, the latter bent; marginal line brown, slight, interrupted by the veins. Fore wings acute, somewhat fawn-colour along the costa and along the exterior border; exterior line black and slightly dilated by the costa; orbicular and reniform marks black, small. Hind wings with the interior line black at each end. Length of the body 5 lines; of the wings 12 lines.

a, *b*. Venezuela. From Mr. Dyson's collection.

75. Botys Cyprælis.

Mas. *Albida, gracilis; caput ochraceo fasciatum; palpi ochracei, ascendentes, breves; antennæ subpubescentes; thorax antice ochraceus; abdomen alas posticas fere dimidio superans; pedes graciles, glabri; alæ latiusculæ, lineis duabus valde indistinctis, 2a flexa, fimbria alba; anticæ vix acutæ, costa ochracea.*

Male. Whitish, slender. Head with an ochraceous band. Palpi obliquely ascending, ochraceous, short, moderately broad; third joint very minute. Antennæ very minutely pubescent. Tho-

rax ochraceous in front. Abdomen extending for nearly half its length beyond the hind wings. Legs slender, smooth. Wings rather broad, iridescent; interior and exterior lines very indistinct, a little darker than the ground-colour, the latter bent; fringe white, shining. Fore wings hardly acute; costa ochraceous; reniform mark very indistinct, like the lines in hue. Length of the body 7 lines; of the wings 14 lines.

Brazil. In Mr. Saunders' collection.

76. Botys Tritealis.

Fœm. *Pallide ochracea; caput apud oculos album; palpi porrecti, lati, cervini, subtus albi; alæ lineis interiore et exteriore nigricantibus indistinctis, fimbria alba basi fuscescente; anticæ sat acutæ, linea exteriore valde flexa, reniformi e striga tenui alba intus nigro marginata.*

Female. Pale ochraceous, white beneath. Head white about the eyes. Palpi porrect, broad, fawn-colour, white beneath. Abdomen not extending beyond the hind wings. Legs smooth, white. Wings with the interior and exterior lines blackish, slender, indistinct the former almost obsolete in the hind wings, the latter much bent in the fore wings; fringe white, brownish at the base. Fore wings moderately acute; reniform mark represented by a slender white streak, which is bordered with black on the inner side. Length of the body 6 lines; of the wings 16 lines.

a. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

77. Botys Remusalis.

Mas. *Cervina; palpi lati, subascendentes, supra fusci; palpi maxillares testacei, distincti; antennæ pubescentes; abdomen nigro bilineatum; pedes albi, glabri; femoribus tibiisque anticis obscure fuscis; alæ apud marginem exteriorem fuscæ; anticæ subfalcatæ, linea interiore nigricante obliqua flexa, linea exteriore arcuata e punctis nigris, orbiculari nigricante punctiformi, reniformi albida nigricante marginata subtus nigra, fimbria nigricante; posticæ litura discali lineaque exteriore nigricantibus, hac subarcuata nigro punctata, fimbria albida cinereo interlineata basi testacea nigro punctata.*

Male. Fawn-colour, much paler beneath. Palpi brown, broad, slightly ascending, white beneath; joints indistinct. Maxillary palpi testaceous, distinct. Antennæ pubescent. Abdomen extending somewhat beyond the hind wings, with a black line along each side. Legs white, smooth; fore femora above and fore tibiæ dark brown. Wings elongate, brown along the exterior border. Fore wings subfalcate; interior line blackish, oblique, bent; exterior line curved, composed of black points; orbicular mark forming a blackish point; reniform whitish, with a blackish border, black on the under side; fringe blackish. Hind wings paler, with a blackish discal mark corresponding to the orbicular; exterior line blackish, slightly curved, accompanied by some black points; fringe whitish, interlined with cinereous, testaceous at the base, with black points. Length of the body 9 lines; of the wings 20 lines.

Bogotà. In Mr. Saunders' colrection.

78. Botys Polytesalis.

Mas. *Flava; palpi ascendentes, pilosi, supra nigricantes, non lati, articulo 3o indistincto; antennæ pubescentes; pedes antici nigricantes; tibiæ intermediæ sat crassæ; alæ apud marginem exteriorem cervinæ, linea exteriore tenui nigricante denticulata valde flexa, linea marginali nigra, fimbria nigro guttata; anticæ apud costam cervinæ, linea interiore nigricante incompleta, orbiculari et reniformi nigris, hac lunulata-subquadrata flavo biguttata, illa punctiformi; posticæ gutta discali nigra.*

Male. Yellow, paler beneath. Palpi obliquely ascending, pilose, blackish above, not broad; third joint indistinct. Antennæ pubescent. Abdomen extending a little beyond the hind wings. Fore femora and fore tibiæ blackish; middle tibiæ rather thick. Wings fawn-colour along the exterior border; exterior line slender, blackish, denticulated, extremely bent; marginal line black, composed of elongated dots in the fore wings; fringe with black dots. Fore wings fawn-colour along the costa; interior line blackish, incomplete; orbicular and reniform marks black, the former punctiform, the latter lunulate-subquadrate, including a yellow dot at each end. Hind wings with a black discal dot. Length of the body 5 lines; of the wings 14 lines.

a. Ega. From Mr. Bates' collection.

79. Botys Medonalis.

Mas. *Pallide cinerea, gracilis, vix testacea; caput apud oculos album; palpi ascendentes, breves, lati, obtusi, albo marginati; antennæ glabræ; alæ subhyalinæ, non longæ; anticæ linea exteriore tenui indistincta pallide fusca vix undulata, linea marginali liturisque duabus apicalibus albis, gutta apicali nigra.*

Male. Pale cinereous, shining, slender, with a slight testaceous tinge, white beneath. Head white about the eyes. Palpi ascending, short, broad, obtuse; joints bordered with white. Antennæ smooth. Abdomen extending somewhat beyond the hind wings. Legs smooth, slender. Wings iridescent, nearly hyaline, moderately broad, not long. Fore wings slightly acute, with a slender indistinct pale brown exterior line, which is hardly undulating; marginal line white; a white mark near the tip of the costa and a larger white apical mark, which is accompanied by a black dot; exterior border slightly oblique. Hind wings without lines. Length of the body 5 lines; of the wings 9 lines.

a. Honduras. From Mr. Dyson's collection.

80. Botys Thalesalis.

Mas. *Pallide testacea; palpi cervini, porrecti, cervini, subrostriformes, subtus basi albi; antennæ glabræ; pectus antice album; alæ semihyalinæ, lineis duabus pallide fuscescentibus indistinctis; anticæ linea exteriore valde flexa, orbiculari et reniformi indistinctis, hac angusta.*

Male. Pale testaceous, slender, whitish beneath. Palpi porrect, fawn-colour, somewhat rostriform, white beneath towards the base, as long as the head. Antennæ smooth, slender. Pectus white in front. Abdomen extending somewhat beyond the hind wings. Legs smooth, slender. Wings iridescent, semihyaline, moderately broad; interior and exterior lines pale brownish, indistinct. Fore wings acute; exterior line much bent; orbicular and reniform marks pale brownish, indistinct, the latter narrow; exterior border moderately oblique. Length of the body 3½ lines; of the wings 7 lines.

a. Honduras. From Mr. Dyson's collection.

81. Botys Acastalis.

Fœm. *Pallide lutea, gracilis; palpi albidi, ascendentes, arcuati, non lati, fusco cincti; pedes antici nigricantes; alæ semihyalinæ, sat angustæ, lituris nullis; anticæ acutæ.*

Female. Pale luteous, slender. Palpi whitish, ascending, curved, not broad; first and second joints with brown tips; third brown, very minute. Abdomen extending a little beyond the hind wings. Legs smooth, slender; fore legs mostly blackish. Wings iridescent, semihyaline, rather narrow, without markings. Fore wings acute; exterior border moderately oblique. Length of the body 3½ lines; of the wings 8 lines.

a. Honduras. From Mr. Dyson's collection.

82. Botys Pyrrhusalis.

Mas. *Pallide flava, gracilis; caput fuscum; palpi nigricantes, ascendentes, breves, lati, obtusi, subtus albi; antennæ subpubescentes; thorax fusco vittatus; abdomen pallide fuscum, basi album; pedes albi; antici fusco varii; alæ semihyalinæ, margine exteriore cupreo-fusco; anticæ costa basi, vitta obliqua, orbiculari et reniformi fuscis.*

Male. Pale yellow, slender, white beneath. Head brown above. Palpi blackish, ascending, short, broad, obtuse, white beneath. Antennæ very minutely pubescent. Thorax with a broad brown stripe. Abdomen pale brown, extending far beyond the hind wings, white at the base. Legs white, smooth, slender; fore femora above and fore tibiæ towards the tips brown. Wings iridescent, semihyaline, cupreous-brown along the exterior border. Fore wings acute, brown at the base of the costa, whence an oblique brown stripe proceeds to the interior angle; orbicular and reniform marks brown, the former punctiform, the latter irregular, rather large. Length of the body 4½ lines; of the wings 8 lines.

Rio Janeiro. In Mr. Fry's collection.

83. Botys Electralis.

Mas. *Alba, gracillima; palpi nigricantes, breves, porrecti, non lati, subtus albi; palpi maxillares distincti; antennæ ciliatæ; pedes glabri, gracillimi; alæ iridescentes, semihyalinæ, apud marginem exteriorem subcinerascentes, linea media subundu-*

lata pallidissime fusca, punctis marginalibus nigris; anticæ subfalcatæ, apud costam fuscæ, lineis interiore et exteriore pallidissime fuscis, orbiculari et reniformi fusco marginatis; posticæ linea interiore pallidissime fusca lata interrupta.

♂ *Male.* White, very slender. Palpi blackish, short, porrect, not broad, white beneath. Maxillary palpi distinct. Antennæ very pubescent or nearly pectinated. Abdomen extending rather far beyond the hind wings. Legs smooth, very slender. Wings elongate, iridescent, semihyaline, with a slightly undulating very pale brown middle line; a diffuse cinereous tinge along the exterior border, especially in front; marginal points black, less distinct in the hind wings. Fore wings subfalcate, brown along the costa; interior and exterior lines very pale brown, the former almost obsolete; orbicular and reniform marks with pale brown borders, the latter narrow. Hind wings with a very pale brown interior line, which is widely interrupted in front. Length of the body 5½ lines; of the wings 14 lines.

a. Ega. From Mr. Bates' collection.

84. Botys Chlorisalis.

Mas. *Pallide flava, gracilis; palpi fusci, porrecti, breves, lati, obtusi, subtus albi fascia angulata fusca; antennæ pubescentes; alæ subiridescentes, fere opacæ, lineis interiore et exteriore fuscis denticulatis, linea marginali fusca bene determinata; anticæ costa, linea basali, orbiculari annuliformi et reniformi subquadrata fuscis.*

Male. Pale yellow, slender, whitish beneath. Palpi brown, porrect, short, broad, obtuse, white beneath, with an angular brown band. Antennæ pubescent. Abdomen extending very far beyond the hind wings. Legs white, smooth, slender. Wings slightly iridescent, nearly opaque; interior and exterior lines brown, denticulated; marginal line brown, distinct, regular. Fore wings hardly acute; costa mostly, basal line and borders of the discal marks brown; orbicular annuliform; reniform subquadrate, straightened in the middle; exterior border very oblique. Hind wings with the interior line somewhat dilated. Length of the body 6½ lines; of the wings 12 lines.

Rio Janeiro. In Mr. Fry's collection.

85. Botys Melitealis.

Mas. *Albida, gracilis; palpi porrecti, breves, squamosi, non lati; antennæ glabræ; thorax antice subcervinus; pedes anteriores subtestacei; alæ lineis interiore et exteriore cervinis subundulatis, punctis marginalibus fuscis; anticæ vix acutæ, apud costam cervinæ, linea exteriore valde flexa, orbiculari et reniformi cervino marginatis.*

Male. Whitish, slender, white beneath. Palpi porrect, short, squamous, not broad, extending very little beyond the head. Antennæ smooth, slender. Thorax slightly fawn-colour in front. Abdomen extending somewhat beyond the hind wings. Legs smooth, slender; anterior legs somewhat testaceous. Wings shining, moderately broad; interior and exterior lines fawn-colour, slightly undulating, the latter much bent in the fore wings; a row of marginal brown points; fringe full. Fore wings hardly acute, fawn-colour along the costa; orbicular and reniform marks with fawn-coloured borders. Length of the body 4 lines; of the wings 10 lines.

Brazil. In Mr. Saunders' collection.

86. Botys Bellalis.

Fœm. *Pallide ochracea, sat robusta, subtus albida; oculi albo marginati; palpi fuscescentes, porrecti, sat lati, subtus albi, articulo 3o conico; pedes albi, glabri; alæ linea exteriore obscuriore valde indistincta; anticæ linea interiore subrecta, linea exteriore valde flexa, reniformi valde indistincta.*

Female. Pale ochraceous, whitish beneath, moderately stout. Head white about the eyes. Palpi brownish, porrect, moderately broad, white beneath; third joint conical. Abdomen extending a little beyond the hind wings. Legs white, smooth. Wings with the exterior line darker, very indistinct, much bent in the fore wings. Fore wings with the interior line nearly straight, slanting hindward from the base, very indistinct, as is also the reniform mark. Length of the body 7 lines; of the wings 18 lines.

a. Villa Nova. From Mr. Bates' collection.

87. Botys Lysanderalis.

Fœm. *Straminea, gracilis, subtus alba; palpi cervini, porrecti, rostriformes; pedes antici ex parte tarsique postici cervini; alæ sat angustæ; anticæ lineis interiore et exteriore nigricantibus, hac flexa guttulari, illa valde incompleta, linea marginali et reniformi cervinis, gutta basali fusca, venis ochraceis; posticæ albæ.*

Female. Straw-colour, slender, white beneath. Palpi fawn-colour, porrect, rostriform, moderately broad, white beneath at the base. Abdomen extending a little beyond the hind wings. Legs white, smooth, slender; fore legs partly and hind tarsi fawn-colour. Wings rather narrow. Fore wings acute; interior and exterior lines blackish, the former very incomplete, the latter bent and composed of dots; marginal line and border of the reniform mark fawn-colour; veins ochraceous; a brown dot near the base. Hind wings white. Length of the body 4 lines; of the wings 10 lines.

Rio Janeiro.

a. Venezuela. From Mr. Dyson's collection.

88. Botys Zoilusalis.

Fœm. *Cinerea, gracilis; palpi ascendentes, arcuati, non lati; alæ lineis interiore et exteriore albidis fuscescente submarginatis, hac valde flexa, linea marginali fuscescente, fimbria alba extus fusca; anticæ linea interiore apud costam dilatata, reniformi e litura albida subquadrata fusco marginata.*

Female. Cinereous, slender, shining, white beneath. Palpi ascending, curved, not broad, white beneath towards the base; third joint conical, minute. Antennæ slender. Legs smooth, slender, white. Wings moderately broad; interior and exterior lines whitish, slightly brownish-bordered, the latter much bent; marginal line brownish, slight; fringe white, brown exteriorly. Fore wings slightly rounded at the tips; exterior line dilated on the costa; reniform mark distinguished by a whitish subquadrate mark, bordered with brown on each side. Length of the body 3? lines; of the wings 7 lines.

a. Honduras. From Mr. Dyson's collection.

89. Botys Syphaxalis.

Mas. *Ochracea, gracilis; oculi albo marginati; palpi porrecti, lati, obtusi, albo marginati; antennæ subpubescentes; abdomen albidum, ochraceo fasciatum; pedes albidi; anteriores supra cervini; alæ latiusculæ, non longæ; anticæ fascia submarginali purpurea; posticæ albidæ, fascia marginali purpurascente.*

Male. Ochraceous, slender, whitish beneath. Head with a pure white line by each eye. Palpi porrect, broad, obtuse, a little longer than the head, bordered with white, pure white beneath. Antennæ very minutely pubescent. Pectus pure white in front. Abdomen whitish, with slender ochraceous bands, extending a little beyond the hind wings; apical tuft small, short. Legs whitish smooth, slender; anterior legs mostly fawn-colour above. Wings rather broad, not long. Fore wings acute, with a broad purple submarginal band; exterior border very slightly oblique. Hind wings whitish, with a paler purplish marginal band. Length of the body 4 lines; of the wings 8 lines.

a. Honduras. From Mr. Dyson's collection.

90. Botys Cœneusalis.

Fœm. *Cinereo-alba; palpi porrecti, breves, obtusi, vix lati; palpi maxillares distincti; antennæ vix submoniliformes; femora intermedia fusco guttata; tibiæ anticæ apice fuscæ; alæ sat angustæ, semihyalinæ, lineis duabus denticulatis, punctis marginalibus nigricantibus; anticæ subfalcatæ.*

Female. Cinereous-white, white beneath. Palpi porrect, short, obtuse, hardly broad, pure white beneath; third joint very short. Maxillary palpi distinct. Antennæ slender, hardly submoniliform. Pectus pure white in front. Legs smooth, slender; middle femora with a brown dot on each; middle knees brown; fore tibiæ with brown tips. Wings rather narrow, iridescent, semihyaline; interior and exterior lines blackish, denticulated, irregular, the former incomplete; a marginal row of blackish points. Fore wings acute, subfalcate, punctiform, orbicular mark lunulate and reniform mark blackish. Length of the body 3? lines; of the wings 7 lines.

a. Honduras. From Mr. Dyson's collection.

91. Botys Tytiusalis.

Fœm. *Cinerea, gracilis; oculi albo marginati; palpi ascendentes, breves, arcuati, obtusi, non lati; alæ subopacæ, vix iridescentes, lineis tribus denticulatis fuscis, lineis submarginali et marginali fuscis non dentatis; anticæ costa apicem versus sordide albida.*

Female. Cinereous, slender, whitish beneath. Head white about the eyes. Palpi ascending, short, curved, obtuse, not broad, pure white beneath; third joint very minute. Antennæ smooth. Pectus pure white in front. Legs white, smooth, slender. Wings moderately broad, hardly iridescent, nearly opaque; interior, middle, and exterior lines brown, denticulated; submarginal and marginal lines brown, regular. Fore wings acute; costa dingy whitish towards the tip. Hind wings with a white fringe. Length of the body 2½? lines; of the wings 6 lines.

a. Honduras. From Mr. Dyson's collection.

92. Botys Eupalusalis.

Mas. *Albida, gracilis; caput antice pallide ochraceum; palpi porrecti, subrostriformes; antennæ glabræ, sat validæ; alæ pallide flavæ, semihyalinæ, non longæ, lineis exteriore et marginali cervinis, hac diffusa; anticæ linea interiore recta, orbiculari et reniformi cervinis; costa basi ochracea.*

Male. Whitish, slender, shining. Head pale ochraceous in front, pure white about the eyes. Palpi pale ochraceous, porrect, subrostriform, nearly as long as the head, pure white beneath; joints indistinct. Antennæ smooth, rather stout. Pectus pure white in front. Abdomen extending far beyond the hind wings; apical tuft long. Legs smooth, slender. Wings pale yellow, iridescent, semihyaline, moderately broad, not long; exterior and marginal lines fawn-colour, the latter diffuse; fringe full. Fore wings somewhat rounded at the tips; interior line fawn-colour, straight, upright; punctiform orbicular mark and lunulate reniform mark fawn-colour; costa ochraceous at the base. Length of the body 4 lines; of the wings 6 lines.

a, *b*. Venezuela. From Mr. Dyson's collection.

93. Botys fenestrinalis.

Var.? Mas. *Cervina; palpi breves, ascendentes, subarcuati, subtus albi; antennæ pubescentes; abdominis segmenta albido marginata; alæ angustæ, iridescentes, fascia flava submarginali ferrugineo marginata, fasciis duabus e maculis albis hyalinis ferrugineo marginatis; anticæ subacutæ, apud costam ochraceæ, fascia 3a hyalina maculari, fascia submarginali costam versus abbreviata.*

Botys fenestrinalis, *Guen. Delt. et Pyral.* 341, 389.

Var.? Male. Fawn-colour, whitish beneath. Palpi ascending, short, moderately broad, slightly curved, white beneath; joints indistinct. Antennæ pubescent. Abdomen extending far beyond the hind wings; hind borders of the segments whitish. Legs smooth, slender. Wings narrow, iridescent, with an irregular submarginal ferruginous-bordered yellow band, which does not extend to the costa of the fore wings; two bands composed of irregular white hyaline ferruginous-bordered spots. Fore wings slightly acute, ochraceous along the costa, with a third white hyaline macular band. Length of the body 6 lines; of the wings 14 lines.

Brazil. In Mr. Saunders' collection.

94. Botys Nysalis.

Mas. *Lutea, gracilis; caput rufescens, striga et oculorum marginibus albis; palpi rufescentes, lati, ascendentes, subtus albi; antennæ pubescentes, longiusculæ; thoracis latera antica rufescentia; pedes ex parte ochracei; alæ fasciis duabus albis vitreis macularibus rufo marginatis, linea submarginali rufa, linea marginali e lunulis rufis; anticæ costa rufescente, linea 3a exteriore alba vitrea maculari rufo marginata.*

Male. Luteous, slender. Head reddish, white about the eyes and with a white streak between the antennæ. Palpi reddish, broad, obliquely ascending, white beneath. Antennæ pubescent, rather long. Thorax reddish on each side in front. Abdomen extending rather far beyond the hind wings. Legs smooth, partly ochraceous. Wings with two white vitreous macular red-bordered bands; a slight red irregular submarginal line; marginal line composed of red lunules. Fore wings with a third exterior white

vitreous macular red-bordered band; costa reddish. Length of the body 4½ lines; of the wings 10 lines.

a. Santarem. From Mr. Bates' collection.
b. Villa Nova. From Mr. Bates' collection.

95. Botys leucalis.

Fœm. *Alba; caput et thorax anticus ochraceo-flava; palpi breves, rostriformes, apice nigri; antennæ breves, pubescentes; alæ flavo-albæ, robustæ, sericeæ lineis duabus submarginalibus venisque pallide fuscis.*

Botys leucalis, *Guen. Delt. et Pyral.* 342, 391.
Brazil.

96. Botys striginervalis.

Alba; caput et thorax anticus flavescentia; palpi flavescentes, arcuati, ascendentes, non lati; alæ iridescentes, semihyalinæ, venis nigricantibus.

Botys striginervalis, *Guen. Delt. et Pyral.* 342, 392.
Brazil.

97. Botys rosinalis.

Rosea, subtus albida; palpi longiusculi, subascendentes, subtus basi albi; antennæ breviusculæ, subpectinatæ; abdomen punctis dorsalibus flavescentibus; alæ subflavescentes, semihyalinæ, subfalcatæ, lineis duabus guttularibus fuscis, exteriore valde flexa, plagis duabus roseis, una subapicali, altera apud angulum interiorem, guttis paucis roseis; anticæ basi, orbiculari et reniformi roseis.

Botys rosinalis, *Guen. Delt. et Pyral.* 342, 393.
Brazil.

98. Botys hirtalis.

Mas et fœm. *Straminea; abdomen dimidio basali fuscescente; alæ nitentes, fimbria longa; anticæ spatio basali margineque interiore badiis, illo chalybeo nitente; linea exteriore tremula flexa, orbiculari annuliformi et reniformi ampla nigricante pallido subnotato approximatis, linea fusca submarginali inchoante, fimbria fusco punctata; posticæ annulo discali oblongo lineaque bene determinatis.*

Botys hirtalis, *Guen. Delt. et Pyral.* 344, 396.
Cayenne.

99. Botys concordalis.

Flavescens; caput et thorax anticus fuscescentia; alæ iridescentes, linea exteriore undulata plus minusve incompleta fusca; anticæ lituris discalibus, costa, plaga apicali elongata maculaque apud angulum interiorem fuscis; posticæ puncto discali maculaque apicali fuscis.

Eulepte concordalis, *Hubn. Samml. Exot. Schmett.* ii., *Lep.* vi., *Pyralides* iii., *Vulgares* 1, *Palpitæ* B., *Tenere* 1, f. 1—4.
Botys concordalis, *Guen. Delt. et Pyral.* 343, 399.

a, *b*. Venezuela. From Mr. Dyson's collection.
c. Ega. From Mr. Bates' collection.
d. Villa Nova. From Mr. Bates' collection.

100. Botys inguinalis.

Mas. *Cervino-flava; caput et thoracis tegulæ basi nigricantia; antennæ pubescentes; alæ iridescentes, semihyalinæ; anticæ costa late nigricante, linea exteriore tenui denticulata, macula apicali nigricante, reniformi violacea subovata; posticæ macula apicali rotundata, puncto discali, linea media tenui interrupta.*

Botys inguinalis, *Guen. Delt. et Pyral.* 346, 402.

Cayenne.

101. Botys Pactolalis.

Cervino-flava; caput palpique supra cervina; pedes antici albi, nigro trifasciati; thorax flavo fuscoque varius; alæ semihyalinæ; anticæ margine lato violaceo-fusco apud medium denticulato postice producto, fascia basali brevi strigam recurvam emittente, orbiculari punctiformi, reniformi subquadrata strigam flavam includente; posticæ macula apicali lineisque duabus nigricantibus.

Botys Pactolalis, *Guen. Delt. et Pyral.* 346, 403.

Guadeloupe.

102. Botys alialis.

Mas. *Sordide straminea; antennæ subpubescentes; thorax et abdomen cinerea, hoc longissimum; alæ semihyalinæ; anticæ vitta lata subcostali fasciaque submarginali nigricante-cinereis,*

illa tridentata e lineis duabus incipientibus et reniformi, striga postica ; posticæ puncto discali lineaque interrupta.

Botys alialis, *Guen. Delt. et Pyral.* 347, 404.

Cayenne. ♀

103. Botys Hortalis.

Fœm. *Læte citrina, gracilis ; caput et thorax fusca ; palpi lati, breves, ascendentes ; pedes longi, glabri, gracillimi ; antici testacei ; alæ angustæ, plaga apicali fusca chalybeo-notata nigro marginata ; anticæ basi fuscæ chalybæo notatæ, apud costam ochraceæ, reniformi e puncto nigro ; posticæ punctis duobus aut tribus submarginalibus nigris.*

Female. Bright-lemon colour, slender, white beneath. Head, thorax and palpi brown ; the latter broad, short, obliquely ascending ; third joint very minute. Antennæ white, slender. Abdomen extending beyond the hind wings. Legs long, smooth, very slender ; spurs very long ; fore legs testaceous. Wings narrow, with a large apical brown chalybeous-marked black-bordered patch. Fore wings brown, and chalybeous-marked at the base, ochraceous along the costa ; reniform mark indicated by a black point. Hind wings with two or three black submarginal points. Length of the body 5 lines ; of the wings 14 lines.

a. Bogotà. From Mr. Stevens' collection.
b. Santarem. From Mr. Bates' collection.

104. Botys Quirinalis.

Mas. *Flava, gracilis ; caput ochraceum ; palpi fusci, breves, graciles, erecti, subarcuati ; articulus 3us longi-conicus, 2i dimidio brevior ; antennæ subpubescentes ; thorax antice ochraceus ; abdominis fasciculus basi utrinque nigricans ; pedes antici fusco fasciati ; alæ apud marginem exteriorem late purpureæ, punctis marginalibus fuscis ; anticæ fascia basali purpurea, reniformi magna purpureo-marginata.*

Male. Yellow, slender, whitish beneath. Head ochraceous ; under side and the fore part of the pectus white. Palpi brown, short, slender, vertical, slightly curved, white beneath at the base ; third joint elongate-conical, less than half the length of the second. Antennæ minutely pubescent. Thorax ochraceous in front. Abdomen extending far beyond the hind wings ; apical tuft blackish on each

side at the base. Legs white, smooth, slender; fore femora brown; fore tibiæ and fore tarsi with brown bands. Wings iridescent, semi-hyaline, broadly but irregularly purple along the exterior border, this hue hiding the exterior line, which is partly apparent and denticulated in the hind wings; marginal points brown. Fore wings acute, with a broad irregular purple band near the base; reniform mark large, purple-bordered, straightened in the middle; orbicular forming a small point. Length of the body 6½ lines; of the wings 13 lines.

Rio Janeiro. In Mr. Fry's collection.

105. Botys Thalloalis.

Fœm. *Flava, sat gracilis; palpi fusci, ascendentes, articulo 3o conico parvo distincto; thorax antice purpurascente-fuscus; pedes albi, glabri; alæ plaga apicali purpureo-fusca, lineis interiore et exteriore nigricantibus undulatis incompletis; anticæ costa puspurascente-fusca, orbiculari et reniformi albis; fusco marginatis, posticæ gutta discali nigra.*

Female. Yellow, moderately slender, whitish beneath. Palpi brown, obliquely ascending, moderately broad, whitish beneath at the base; third joint conical, small, distinct. Thorax purplish brown in front. Abdomen not extending beyond the hind wings. Legs white, smooth. Wings moderately broad; interior and exterior lines blackish, slight, undulating, incomplete, the latter indistinct; a purplish brown apical patch which is largest in the fore wings. Fore wings with the exterior line more distinct along the patch to which it is contiguous; costa purplish brown along full half the length from the base; orbicular and reniform marks white, shining, near the costa bordered with brown. Hind wings with a black discal dot, which corresponds to the orbicular mark. Length of the body 4 lines; of the wings 12 lines.

Brazil. In Mr. Saunders' collection.

106. Botys Peranthusalis.

Fœm. *Flava, gracilis; caput supra fuscum; palpi fusci, breves, erecti, arcuati, vix lati, articulo 3o lato obtuso basi albo; thorax antice cervinus; abdomen pallide cervinum, segmentis albido marginatis; alæ linea interiore interrupta lineaque exteriore flexa purpureis; anticæ orbiculari punctiformi*

punctisque duobus interioribus cyaneis, reniformi magna purpureo marginata, plaga magna apicali purpurea, costa cervina; posticæ macula apicali elongata purpurea.

Femalę. Yellow, slender, white beneath. Head brown above. Palpi brown, short, vertical, curved, moderately broad, white beneath, except towards the tips; third broad, obtuse, white at the base, hardly one third of the length of the second. Thorax fawn-colour in front. Abdomen pale fawn-colour, extending somewhat beyond the hind wings; hind borders of the segments whitish. Legs white, smooth, slender. Wings iridescent, semihyaline; interior and exterior lines purple, the former much interrupted, the latter much bent. Fore wings acute; orbicular mark forming a blue point; two other blue points in a line with it nearer the base; reniform mark large, partly purple-bordered; a large purple apical patch, partly interrupting the exterior line; costa fawn-colour. Hind wings with an apical elongated purple spot. Length of the body 5½ lines; of the wings 12 lines.

Rio Janeiro. In Mr. Fry's collection.

107. Botys Nivialis.

Mas. *Lutea, gracillima; caput subtus pectusque anticum alba; palpi nigricantes, erecti, caput longe superantes; articulus 3us lanceolatus, 2o non brevior; antennæ subpubescentes; thorax antice chalybeus; alæ elongatæ, iridescentes, lineis interiore et exteriore e guttis purpureis, hac flexa, illa valde incompleta, linea marginali e lunulis purpureis; anticæ acutæ, vitta costali chalybea, plaga subapicali purpurea, orbiculari et reniformi nigris parvis; posticæ macula apicali purpurea, gutta discali nigra.*

Male. Luteous, very slender, hardly paler beneath. Head beneath and fore part of the pectus white. Palpi blackish, vertical, ascending high above the head; third joint lanceolate, as long as the second. Antennæ minutely pubescent. Thorax chalybeous in front. Abdomen long, extending far beyond the hind wings. Legs smooth, slender. Wings elongate, iridescent; interior and exterior lines composed of purple dots, the latter bent, the former very incomplete; marginal line composed of purple lunules. Fore wings acute, with a chalybeous costal stripe, which half includes the small black orbicular and reniform marks; a subapical purple patch. Hind wings with a purple apical spot and with a black

discal dot corresponding to the orbicular mark. Length of the body 8 lines; of the wings 16 lines.

Brazil. In Mr. Saunders' collection.

108. Botys? Lelexalis.

Pallidissime cervina; alæ lineis interiore et exteriore gracillimis dentatis interruptis lineaque submarginali nigris; anticæ linea basali et reniformi angusta nigris.

Phalæna Lelex, *Cram. Pap. Exot.* ii. 2, pl. 97, f. C.
Botys Lelexalis, *Guen. Delt. et Pyral.* 348, 407.

Surinam.

109. Botys phæopteralis.

Var.? Fœm. *Fuscescente-cinerea, subtus albida; palpi porrecti, lati, obtusi; abdomen alas posticas sat superans; alæ purpurascentes, subopacæ, lineis interiore et exteriore fuscis indistinctis, hac valde flexa.*

Botys phæopteralis, *Guen. Delt. et Pyral.* 349, 409.

All South America.

Var.? Female. Brownish cinereous, whitish beneath. Palpi porrect, brown, broad, obtuse, white beneath. Pectus white in front. Abdomen extending rather far beyond the hind wings. Legs white, smooth, slender; fore tibiæ brown towards the tips. Wings with a purplish tinge, almost opaque; interior and exterior lines brown, indistinct, the latter much bent; fringe whitish, interlined near the base, which is testaceous. Fore wings acute; reniform mark small, blackish. Length of the body 6 lines; of the wings 12 lines.

Rio Janeiro. In Mr. Fry's collection.

110. Botys silicalis.

Mas et fœm. *Ochraceo-alba; antennæ filiformes; abdomen albidum, apice magis flavescens; alæ iridescentes, semihyalinæ, fimbria margineque interiore magis albidis, linea vix conspicua cinerea; anticæ lunula discali cinerea indistincta.*

Botys silicalis, *Guen. Delt. et Pyral.* 349, 410.

Brazil. Cayenne.

111. BOTYS LIBERALIS.

Fœm. *Ferrugineo-fusca; corpus fuscum; pedes antici flavescente-fusci, tarsis subannulatis; alæ purpurascente tinctæ; anticæ costa subflavescente, striga discali lineaque exteriore nigricantibus, hac antice e punctis postice flexuosa.*

Botys liberalis, *Guen. Delt. et Pyral.* 350, 412.

Brazil?

112. BOTYS? ILLIBERALIS.

Fœm. *Lurido-fusca; alæ anticæ strigis nonnullis transversis fasciisque duabus guttularibus subapicalibus nigris, basi costaque nigricantibus; posticæ subcinereæ, apud margines roseæ, fascia marginali nigra.*

Tholeria illiberalis (Pyralis vulgaris, Tetrachila distincta), *Hübn. Samml. Exot. Schmett. Zutr.* 27, 175, f. 349, 350; *Verz. Schm.* 354, 3391.

Botys illiberalis, *Guen. Delt. et Pyral.* 350, 414.

Surinam.

113. BOTYS INFUSCALIS.

Mas. *Ferrugineo-fusca; palpi bicolores; antennæ setaceæ; abdomen apice flavescens; pedes albi, antici genubus tibiisque apice fuscis; alæ oblongæ, violaceo tinctæ, lineis duabus sinuatis subtremulis vix obscurioribus pallido submarginatis; anticæ apice productæ, linea basali, linea interiore brevi, litura discali nigra bene determinata.*

Botys infuscalis, *Guen. Delt. et Pyral.* 350, 414.

Brazil.

114. BOTYS EXIGUALIS.

Mas. *Testacea; alæ semihyalinæ, iridescentes, strigis nonnullis et fascia lata marginali cinereis.*

Ochlia exigualis (Pyralis vulgaris, Palpita repandata), *Hübn. Samml. Exot. Schm. Zutr.* 24, 167, f. 333, 334; *Verz. Schm.* 357, 3425.

Surinam.

115. Botys amissalis.

Mas. *Ferrugineo-fusca; antennæ vix pubescentes; abdomen alas posticas paullo superans, subtus album; pedes antici tibiis villosis, metatarso fasciculato; alæ linea media lituraque discali vix conspicuis; anticæ violaceo tinctæ, apice productæ, plica costali basali cinereo pilosa, fasciculo subtus fusco; posticæ pallidiores, fimbria apice alba.*

Botys amissalis, *Guen. Delt. et Pyral.* 351, 415.
Brazil.

116. Botys Orontesalis.

Mas. *Cinereo-fusca; palpi obscure fusci, latissimi, ascendentes, subtus basi albi; antennæ subsetosæ; abdomen fasciis nigris albo marginatis, fasciculo apicali nigricante; pedes pallide lutei, tibiis anticis nigro fasciatis; alæ lineis interiore et exteriore nigris, hac valde flexa, linea marginali nigra, fimbria alba basi testacea fusco interlineata; anticæ acutæ, maculis duabus costalibus luteis trigonis connexis, margine exteriore valde obliquo; posticæ linea interiore valde abbreviata.*

Male. Cinereous-brown, whitish beneath. Palpi dark brown, very broad, obliquely ascending, white beneath towards the base. Antennæ minutely setose. Abdomen extending very far beyond the hind wings; hind borders of the segments with black white-bordered bands; apical tuft blackish. Legs smooth, mostly pale luteous; fore tibiæ very short, with a black band. Wings with the interior and exterior lines black, the former much abbreviated in the hind wings, the latter much bent; marginal line black; fringe white, testaceous at the base, interlined with brown. Fore wings acute, with two luteous triangular connected costal spots; exterior border very oblique, forming a continuous line with that of the hind wings. Length of the body 8 lines; of the wings 16 lines.

a. Ega. From Mr. Bates' collection.
b. Venezuela. From Mr. Dyson's collection.

117. Botys Elathealis.

Mas. *Fusca, robusta, subtus albido-testacea; caput albidum, fusco fasciatum; palpi ascendentes, subarcuati, non lati, subtus albi, articulo 3o conico distincto, antennæ sat validæ, subpubescentes, basi incrassatæ; pectus antice album; abdomen apicem versus subtumidum; pedes robusti; antici obscure fusci; alæ opacæ, cupreo-purpureoque nitentes, fimbria albida, lineis obsoletis; anticæ acutæ, reniformi nigra angusta.*

Male. Brown, stout, whitish testaceous beneath. Head whitish, with a brown band in front of the antennæ. Palpi ascending, slightly curved, not broad, white in front; third joint conical, distinct. Antennæ rather stout, minutely pubescent, incrassated at the base. Pectus white in front. Abdomen slightly tumid and ascending towards the tip, extending rather beyond the hind wings. Legs stout, smooth, whitish testaceous. Fore legs mostly dark brown. Wings shining, opaque, moderately broad, with cupreous-purple reflections; fringe whitish; lines obsolete. Fore wings acute; reniform mark narrow, black. Length of the body 5 lines; of the wings 11 lines.

Amazon Region. In Mr. Saunders' collection.

118. Botys Sylvialis.

Fœm. *Cinereo-fusco, gracilis; oculi albido marginati; palpi fusci, porrecti, breves, obtusi; pedes albidi, appressi; alæ subpurpurascentes, lineis duabus albidis, 2a valde flexa, fimbria alba basi testacea fusco interlineata; anticæ reniformi e macula albida strigam brevem obscure fuscam includente.*

Female. Cinereous-brown, slender, whitish beneath. Head beneath and fore part of the thorax white. Eyes with whitish borders. Palpi porrect, short, brown, obtuse, white beneath. Abdomen extending a little beyond the hind wings. Legs whitish, smooth, flattened. Wings moderately broad, with a slight purplish tinge; interior and exterior lines whitish, the latter much bent; fringe white, testaceous at the base, interlined with brown. Fore wings acute; orbicular and reniform marks dark brown, the former punctiform, the latter forming a short streak, which is contained in

a small whitish spot. Hind wings with the interior line almost obsolete. Length of the body 5 lines; of the wings 12 lines.

Brazil. In Mr. Saunders' collection.

119. Botys Dorisalis.

Fœm. *Fuscescente-cinerea; oculi albo marginati; palpi arcuati, ascendentes, subtus albi; pedes glabri; alæ linea exteriore alba tenui subundulata, linea marginali fusca; anticæ acutæ, linea interiore recta et reniformi perangusta albis, linea exteriore apud costam dilatata; posticæ linea marginali intus albo marginata.*

Female. Brownish cinereous, whitish beneath, moderately stout. Head white about the eyes. Palpi curved, ascending, applied to the head, moderately broad, white beneath; third joint almost obsolete. Abdomen hardly extending beyond the hind wings. Legs smooth. Wings with the exterior line slender, white, slightly undulating and dilated on the costa of the fore wings; marginal line brown, slender. Fore wings acute; interior line straight, white, slender; reniform mark white, very narrow. Hind wings with the marginal line bordered with white on the inner side. Length of the body 5 lines; of the wings 12 lines.

a. Villa Nova. From Mr. Bates' collection.

120. Botys Codrusalis.

Fœm. *Fusca, sat robusta; oculi albido marginati; palpi breves, lati, ascendentes, albido marginati; pedes fuscescentes, glabri, tarsis testaceis; alæ breviusculæ, latiusculæ, linea exteriore alba recta obliqua; anticæ acutæ linea exteriore apud costam flexa, linea interiore recta et reniformi perangusta albis; posticæ linea marginali fusca intus albo marginata.*

Female. Brown, rather stout. Body whitish beneath. Head whitish about the eyes. Palpi short, broad, ascending, with whitish borders; third joint very minute. Abdomen not extending beyond the hind wings. Legs brownish, smooth; tarsi testaceous. Wings rather short and broad; exterior line white, straight, oblique, bent inward near the costa of the fore wings; marginal line dark brown, slender. Fore wings acute; interior line white, straight, almost upright; reniform mark white, very narrow. Hind wings with the

marginal line bordered with white on the inner side. Length of the body 5 lines; of the wings 12 lines.

This species much resembles *B. Dorisalis*, but is sufficiently distinct.

a. Bogotà. From Mr. Stevens' collection.

121. Botys Agenoralis.

Fœm. *Cinereo-fusca, sat valida, subtus albida; palpi erecti, arcuati, articulo 3o conico bene determinato; alæ cupreo tinctæ, sat amplæ, maculis duabus lobatis semihyalinis sordide albidis, lineis interiore et exteriore obscure fuscis incompletis, hac valde flexa, fimbria extus albida; anticæ vix acutæ.*

Female. Cinereous-brown, moderately stout, whitish beneath. Palpi vertical, curved, moderately broad; third joint conical, very distinct. Abdomen extending a little beyond the hind wings. Legs smooth. Wings with a cupreous tinge, rather ample, with two lobed dingy whitish semihyaline spots in each wing; these lobes most distinct in the fore wings; interior and exterior lines dark brown, incomplete, the latter much bent; fringe whitish exteriorly. Fore wings hardly acute. Length of the body 6 lines; of the wings 14 lines.

Brazil. In Mr. Saunders' collection.

122. Botys Damonalis.

Mas et fœm. *Cinereo-fusca, sat robusta, subtus albida; palpi erecti, vix arcuati; antennæ maris subpubescentes; pectus antice album; pedes pallide testacei, genubus anterioribus nigris, tibiis anticis apice nigricantibus; alæ cupreo-purpurascentes, fimbria cinerea basi fusca; anticæ acutæ, orbiculari e puncto nigro.* Fœm.—*Alæ anticæ lituris nonnullis discalibus semihyalinis sordide albidis.*

Male and female. Cinereous-brown, rather stout, whitish beneath. Palpi vertical, hardly curved, moderately broad; third joint minute, conical, distinct. Antennæ minutely pubescent in the male. Pectus shining white in front. Abdomen extending somewhat beyond the hind wings. Legs pale testaceous, smooth; anterior knees black; fore tibiæ blackish towards the tips. Wings with

a purplish cupreous tinge; fringe cinereous, brown at the base. Fore wings acute, with some dingy whitish semihyaline discal marks in the female; orbicular mark forming a black point. Length of the body 5—5½ lines; of the wings 14 lines.

Villa Nova. In Mr. Saunders' collection.

123. Botys Pandaralis.

Fœm. *Obscure fusca, subtus lutea; palpi breves, lati, ascendentes; antennæ sat validæ; abdomen luteum; pedes lutei, validi, genubus anticis nigris, tibiis anticis nigro maculatis; alæ subpurpurascentes, breviusculæ, sat angustæ, fimbria apice et apud angulum interiorem alba, lineis interiore et exteriore nigricantibus valde indistinctis; anticæ apice subrotundatæ, reniformi angusta nigricante indistincta.*

Female. Dark brown, bright luteous beneath. Palpi short, broad, ascending; third joint extremely short. Antennæ smooth, moderately stout. Abdomen luteous; extending a little beyond the hind wings. Legs stout, luteous; fore knees black; fore tibiæ with a black spot near the tips. Wings rather short and narrow, with a slight purplish tinge; fringe white at the tips and towards the interior angle; interior and exterior lines blackish, very indistinct. Fore wings slightly rounded at the tips; reniform mark blackish, narrow, indistinct. Length of the body 4 lines; of the wings 10 lines.

Amazon Region. In Mr. Saunders' collection.

124. Botys Eucharisalis.

Fusca, robusta, subtus cinerea, antice ochracea; palpi ascendentes, arcuati, apice fusci; abdomen subtus apice ochraceum; alæ purpureo-cupreoque tinctæ, lituris nullis; anticæ apice rotundatæ.

Female. Brown, stout, cinereous beneath. Head, fore part of the thorax and of the pectus and fore legs orange. Palpi orange, ascending, curved, moderately broad, brown towards the tips; third joint very minute. Abdomen hardly extending beyond the hind wings, orange beneath at the tip. Legs smooth. Wings moderately broad, tinged with purple and cupreous, without

markings. Fore wings somewhat rounded at the tips. Length of the body 5 lines; of the wings 14 lines.

a. Ega. From Mr. Bates' collection.

125. Botys Ænippealis.

Mas. *Fusca, gracilis; palpi ascendentes, lati, breves, obtusi; antennæ glabræ; tibiæ intermediæ incrassatæ; alæ linea exteriore alba vix undulata; anticæ linea alba recta, linea exteriore flexa apud costam dilatata, reniformi e striga alba; posticæ linea marginali alba gracillima.*

Male. Brown, slender, paler beneath. Palpi ascending, broad, short, obtuse; third joint extremely minute. Antennæ smooth. Abdomen extending somewhat beyond the hind wings. Legs smooth, slender; middle tibiæ incrassated. Wings moderately broad; exterior line white, slender, hardly undulating; fringe paler exteriorly. Fore wings acute; interior line white, straight, upright; exterior line bent near the costa, on which it is dilated; reniform mark distinguished by a white streak. Hind wings with a very slender white marginal line. Length of the body 4½ lines; of the wings 10 lines.

a. Bogotà. From Mr. Miller's collection.

126. Botys anormalis.

Mas. *Cervina; palpi fusci, ascendentes, arcuati, articulo 3o conico distincto; antennæ pubescentes, incisæ, basi incrassatæ; tibiæ posteriores dense fasciculatæ; antice apice fuscæ; alæ lineis duabus nigricantibus, 2a valde flexa, punctis marginalibus fuscis; anticæ costa testacea, macula strigaque transversa exteriore vitreis.*

Botys anormalis, *Guen. Delt. et Pyral.* 351, 418.

Cayenne.

Male. Fawn-colour, moderately stout, whitish beneath. Palpi brown, curved, ascending, moderately broad, white beneath at the base; third joint conical, very distinct, less than one-fourth of the length of the second. Antennæ pubescent, slightly incrassated for about one-fourth of the length from the base, near which they are distinctly notched. Abdomen extending some distance beyond

the hind wings. Legs smooth; posterior tibiæ densely tufted; fore tibiæ brown towards the tips. Wings iridescent, semihyaline; interior and exterior lines blackish, the latter much bent; marginal points brown, concise in the fore wings; fringe whitish, testaceous at the base, interlined with brown. Fore wings acute, testaceous along the costa, with a vitreous spot and an irregular transverse exterior vitreous streak in the disk; reniform mark between the vitreous marks, irregularly bordered with brown on each side. Hind wings more hyaline than the fore wings. Length of the body 7 lines; of the wings 16 lines.

Rio Janeiro. In Mr. Fry's collection.

127. Botys alvinalis.

Mas. *Testacea; palpi concise bicolores; antennæ rude squamosæ; abdominis segmenta albo marginata; alæ iridescentes, fimbria pallida apice alba nigricante interlineata; anticæ lineis duabus valde sinuatis, macula tridentata maculisque duabus rotundatis vitreis albo-opalinis; posticæ apicem versus sinuatæ, linea una nigricante contorta postice pallido marginata, lituris opalinis vagis.*

Botys alvinalis, *Guen. Delt. et Pyral.* 352, 419.

Brazil.

128. Botys prolongalis.

Mas. *Nigricante-fusca; palpi fusci, unicolores; antennæ robustæ, pubescentes, apices versus tumidæ et convolutæ; pectus antice album; pedes robusti; alæ amplæ, iridescentes, fimbria basi pallida, linea diffusa nigricante, litura discali e guttis opalinis; anticæ fere falcatæ, costa apice convexa, linea tridentata; posticæ trigonæ, angulo interiore valde producto, margine exteriore bisinuato.*

Botys prolongalis, *Guen. Delt. et Pyral.* 353, 420.

Brazil.

129. Botys sectalis.

Mas. B. prolongali *simillima; palpi subtus albi; tibiæ posticæ pilis sericeis cinereis et flavescentibus fasciculatæ; alæ anticæ litura opalina majore magis determinata minus tridentata.*

Botys sectalis, *Guen. Delt. et Pyral.* 353, 421.

Brazil.

130. Botys incomptalis.

Mas. *Pallide lutea; thorax et abdomen nigro fasciata; alæ iridescentes, fascia latissima subrosea; anticæ litura media fasciis basalibus guttisque apicalibus nigris; posticæ fasciis undulatis nigris.*

Sylepte incomptalis (Pyralis vulgaris, Palpita tenera), *Hübn. Zutr.* 18, 143, f. 285, 286; *Verz. Schm.* 356, 3408.

Surinam.

131. Botys? Cerialis.

Pallide lutea; alæ albæ, semihyalinæ, spatio exteriore pallide luteo, linea interiore marginoque exteriore fuscis; anticæ punctis duobus discalibus interioribus, linea exteriore postice abbreviata costaque fuscis.

Phalæna-Pyralis Cerialis, *Cram. Pap. Exot.* iv. 240, pl. 399, f. M.
Ochlia Cerialis, *Hübn. Verz. Schm.* 357, 3424.

Surinam.

132. Botys?? Cocalalis.

Mas. *Fusca; palpi longiusculi; antennæ pubescentes; abdomen alas posticas longe superans; alæ anticæ gutta basali, lineis duabus undulatis lituraque discali nigris, macula apicali elongata testacea, linea exteriore flexa; posticæ nigro-fuscæ.*

Phalæna Cocala, *Cram. Pap. Exot.* iii. 145, pl. 273, f. D.

Surinam.

This species hardly belongs to *Botys*, but is noticed on account of Guenée's referring it to that genus.

133. Botys Philetalis.

Mas. *Fusca, robusta; palpi ascendentes, arcuati; antennæ glabræ; abdomen luteum, alas posticas paullo superans, segmentis nigricante marginatis; tibiæ late fimbriatæ, anticæ nigricantes; alæ anticæ purpurascente-fuscæ, apud costam ochraceæ, lineis interiore et exteriore nigricantibus, hac perobliqua valde flexa, orbiculari et reniformi ochraceis nigricante marginatis; posticæ cinereo-fuscæ, purpurascente æneoque tinctæ, linea exteriore obscuriore.*

Male. Brown, stout, whitish cinereous beneath. Palpi ascending, almost vertical, curved, moderately broad; third joint extremely minute. Antennæ bare. Abdomen luteous, extending a little beyond the hind wings; hind borders of the segments blackish. Tibiæ broadly fringed; fore tibiæ very short, blackish, except at the base. Fore wings acute, purplish brown, broadly but irregularly ochraceous along the costa; interior and exterior lines and orbicular and reniform marks blackish, the two latter with ochraceous disks and of the usual form in the *Noctuites;* exterior line very oblique and much bent. Hind wings cinereous-brown, tinged with purplish and æneous, with a darker exterior line, which is much nearer the base than usual. Length of the body 7 lines; of the wings 16 lines.

a. Santarem. From Mr. Bates' collection.

134. Botys Evippealis.

Mas. *Cervina, sat robusta; caput et thorax anticus rufa; palpi breves, lati, ascendentes, nigricantes, rufo varii, subtus albi; antennæ pubescentes; abdomen alas posticas paullo superans, segmentis albo marginatis, apice nigro; pedes albi, femoribus anterioribus luteis nigrisque; alæ rufæ, fimbria cinerea basi fusca; anticæ acutæ, macula basali diffusa flavescente, fascia interiore lutea abbreviata nigro punctata, macula exteriore lutea subcostali elongata rubro marginatis; posticæ fascia lutea latissima.*

Male. Fawn-colour, rather stout, white beneath. Head and fore part of the thorax red. Palpi short, broad, obliquely ascending, blackish, partly red, white beneath; third joint extremely short. Antennæ pubescent. Abdomen extending a little beyond the hind wings; hind borders of the segments white; tip black. Legs white, smooth; anterior femora luteous and black. Wings red, moderately broad; fringe cinereous, brown at the base. Fore wings acute, with a diffuse yellowish basal spot, with an abbreviated interior luteous band which contains a black point, and with an elongated exterior transverse subcostal luteous spot; the two latter with deep red borders, as has also the very broad luteous band of the hind wings, this band containing a red spot. Length of the body 5 lines; of the wings 12 lines.

Pará. In Mr. Saunders' collection.

135. Botys Persiusalis.

Fœm. *Purpureo-rufa, sat gracilis; palpi ascendentes, breves, subtus albi, articulo 3o conico parvo; pedes posteriores ex parte albi; alæ elongatæ, fasciis duabus macularibus vitreis, fimbria albida, margine exteriore flexo; anticæ subfalcatæ, fascia exteriore maculari vitrea, macula apud marginem interiorem lutea.*

Female. Purplish red, rather slender. Palpi ascending, short, moderately broad, white beneath; third joint conical, small. Pectus white in front. Abdomen hardly extending beyond the hind wings. Legs smooth; posterior tibiæ partly and tarsi white. Wings elongate, with two incomplete and irregular bands composed of vitreous spots; fringe mostly whitish; exterior border somewhat bent. Fore wings subfalcate, with a luteous spot by the interior border and with a third exterior incomplete vitreous macular band. Length of the body 5 lines; of the wings 14 lines.

Rio Janeiro. In Mr. Fry's collection.

136. Botys Cephalis.

Fœm. *Alba; corpus supra fuscescente-cinereum; palpi fuscescentes, ascendentes, albo fasciati; pedes antici pilosi, fusci; alæ elongatæ, vinereæ, iridescentes; anticæ basi fuscescentes, apud costam albæ semihyalinæ ex parte luteæ, reniformi lutea; posticæ basi albæ semihyalinæ, macula diffusa alba nigro notata apud angulum interiorem, linea exteriore subobsoleta.*

Female. White. Body mostly brownish cinereous above. Palpi brownish, obliquely ascending, moderately broad, with white bands. Antennæ slender. Abdomen extending a little beyond the hind wings. Fore femora and fore tibiæ pilose, brown. Wings elongate, cinereous, iridescent. Fore wings brownish at the base, irregularly white and semihyaline, and partly luteous along the costa; reniform mark luteous. Hind wings white and semihyaline at the base, and with a diffuse white black-marked spot by the interior angle; this spot forms the end of a diffuse and almost obsolete exterior line. Length of the body 5—6 lines; of the wings 14—16 lines.

a, b. Venezuela. From Mr. Dyson's collection.

137. Botys Rhexialis.

Mas. *Ferruginea; palpi porrecti, breves, non lati, articulo 3o minimo; antennæ pubescentes; abdomen testaceum ferrugineo subconspersum, linea transversa nigra maculisque duabus lateralibus albis basalibus; tibiæ anticæ subtus fusco fasciculatæ; alæ iridescentes, semihyalinæ, fusco subconspersæ, basi purpurascente-fuscæ, linea exteriore fusca tenui flexa; anticæ subfalcatæ, striga costali exteriore lata maculaque magna subquadrata apud marginem interiorem reniformique lunulata fuscis; posticæ maculis duabus purpurascente-fuscis, 1a costali subapicali, 2a apud angulum interiorem.*

Male. Ferruginous, white beneath. Palpi porrect, short, not broad; third joint very minute. Antennæ pubescent. Abdomen testaceous, extending somewhat beyond the hind wings, slightly speckled with ferruginous, with a transverse black line near the base bordering two lateral white spots. Legs smooth, with very long spurs; fore tibiæ with a small brown tuft beneath. Wings iridescent, semihyaline, moderately broad, slightly and irregularly speckled with brown, broadly purplish brown at the base; exterior line slender, brown, especially bent in the fore wings. Fore wings subfalcate, with a broad brown streak along the apical part of the costa, and a large subquadrate brown spot towards the end of the interior border; reniform mark brown, lunulate. Hind wings with an irregular purplish brown spot on the costa near the tip, and another by the interior angle. Length of the body 5 lines; of the wings 14 lines.

a. Venezuela. From Mr. Dyson's collection.

138. Botys Lybialis.

Fœm. *Fusca, robusta, subtus alba; palpi nigricantes, graciles, oblique ascendentes, subtus basi albi; antennæ fulvæ, robustæ; abdomen basi apiceque album; pedes validi, tibiis anticis fuscescentibus fasciculo subtus fusco; alæ albæ, iridescentes, semihyalinæ, latiusculæ, lineis obscure fuscis, linea exteriore tenuissima incompleta, linea marginali postice obsoleta, linea interiore latiore; anticæ vix subfalcatæ, basi purpurascente-fuscæ, linea media postica interrupta, orbiculari e annulo nigricante, reniformi alba subquadrata fusco marginata; pos-*

ticæ basi purpurascente-fuscæ, striga interrupta fusco conspersa, linea interiore interrupta angulum anticum elongatum fingente.

Female. Very nearly allied to *B. Amatalis.* Brown, stout, white beneath. Palpi blackish, slender, obliquely ascending, white beneath at the base, rising a little higher than the vertex; third joint conical, minute. Antennæ tawny, very stout. Abdomen extending a little beyond the hind wings, with some white marks, almost wholly white at the base and at the tip. Legs stout, smooth; fore tibiæ brownish, with a brown tuft beneath. Wings white, iridescent, semihyaline, rather broad; lines dark brown; exterior line very slight, especially incomplete in the hind wings; marginal line obsolete hindward; interior line broader. Fore wings hardly subfalcate, purplish brown at the base and along the adjoining part of the interior border, whereby the interior line is partly hidden; middle line irregular, interrupted, visible behind the reniform mark; the latter irregularly and incompletely subquadrate, with a white disk; orbicular forming a blackish ringlet. Hind wings purplish brown at the base, and with a streak of brown speckles traversing the interior line near the interior border; this line interrupted in the middle and forming an elongated ringlet in front. Length of the body 5 lines; of the wings 13 lines.

a. Honduras. From Mr. Dyson's collection.

139. Botys Amatalis.

Fœm. *Pallide lutea; caput et thorax purpurascente-fusca; palpi nigricantes, graciles, ascendentes, articulo 3o minimo; alæ iridescentes, semihyalinæ, latiusculæ, lituris nigris, linea exteriore subdenticulata incompleta, linea interiore interrupta, linea marginali antice dilatata postice subdilatata; anticæ subfalcatæ, basi purpurascente-fuscæ, margine interiore ferrugineo, linea media postica interrupta, reniformi e strigis duabus latis undulatis, orbiculari annuliformi; posticæ linea interiore annulum elongatum fingente, macula apud marginem interiorem elongata ferruginea.*

Female. Pale luteous. Head and thorax purplish brown. Palpi blackish, slender, obliquely ascending; third joint very minute. Abdomen extending very little beyond the hind wings. Legs smooth; spurs long. Wings iridescent, semihyaline, rather broad; lines black; exterior line slightly denticulated, especially incomplete in the hind wings; marginal line dilated in front,

almost obsolete hindward; interior line interrupted, broader than the exterior line. Fore wings subfalcate, purplish brown at the base, ferruginous along the interior border; middle line interrupted, irregular, visible behind the reniform mark; the latter composed of two black broad undulating slightly divided streaks; orbicular forming an irregular black ringlet. Hind wings with the interior line forming an elongated ringlet in front; an elongated ferruginous spot near the interior border. Length of the body 6 lines; of the wings 16 lines.

a. Parà. From Mr. Bates' collection.

140. Botys Asiusalis.

Mas. *Glauco-cinerea, gracillima; palpi ascendentes, arcuati, lati; articulus 3us gracilis, lanceolatus, 2i dimidio longior; antennæ glabræ, graciles, submoniliformes; abdomen cervinum, segmentis albo marginatis; pedes antici nigro notati; alæ elongatæ, lineis interiore et exteriore nigricantibus indistinctis, hac valde flexa, linea marginali testacea gracillima; anticæ striga maculaque trigona costalibus albis, reniformi alba subquadrata utrinque fusco marginata.*

Male. Glaucous-cinereous, very slender. Palpi ascending, curved, broad; third joint slender, lanceolate, more than half the length of the second. Antennæ bare, slender, submoniliform. Abdomen fawn-colour, extending far beyond the hind wings; hind borders of the segments white. Legs whitish, smooth, slender; spurs very long; fore knees black; fore tibiæ partly black beneath. Wings elongate; interior and exterior lines blackish, not distinct, the latter much bent; marginal line testaceous, very slender; fringe white at the tips of the fore wings and towards the interior angle of the hind wings. Fore wings acute, with a white costal streak and an exterior triangular white costal spot, the former with a testaceous tinge; reniform white, subquadrate, bordered with brown on each side. Length of the body 5 lines; of the wings 10 lines.

Rio Janeiro. In Mr. Fry's collection.

141. Botys Odiusalis.

Fœm. *Fusca, gracilis, subtus albida; palpi breves, subarcuati, subascendentes, subtus basi albi; abdominis segmenta albido marginata; tibiæ anticæ apice nigræ; alæ purpurascentes, iridescentes, sat latæ, lineis interiore et exteriore obscure fuscis, hac vaga, fimbria albido-cinerea; anticæ acutæ, apud costam testaceæ, basi postica, maculis discalibus, plaga transversa guttisque exterioribus flavescentibus semihyalinis; posticæ bis triente basali flavescente semihyalina; linea interiore antice furcata, linea exteriore denticulata.*

Female. Brown, slender, whitish beneath. Palpi short, slightly curved and ascending, moderately broad, white beneath at the base; third joint conical, very minute. Abdomen extending a little beyond the hind wings; hind borders of the segments whitish. Legs smooth; fore tibiæ black towards the tips. Wings purplish, iridescent, moderately broad; fringe whitish cinereous; interior and exterior lines dark brown, the latter very irregular. Fore wings acute, mostly testaceous along the costa, with yellowish semihyaline marks, which consist of the base hindward, some irregular spots between the lines; a transverse patch on the inner side of the exterior line, and some dots on its exterior side. Hind wings yellowish and semihyaline on about two-thirds of the length from the base excepting the two lines; interior line forked in front; exterior line denticulated. Length of the body 5 lines; of the wings 14 lines.

Brazil. In Mr. Saunders' collection.

142. Botys Pieralis.

Fœm. *Albida, robusta; caput ferrugineum; palpi porrecti, breves, lati; antennæ sat validæ; abdominis segmenta albo marginata; pedes antici nigro fasciati; alæ elongatæ, lineis fuscis, linea exteriore flexa, linea marginali valde incompleta, fimbria alba fusco guttata; anticæ apud costam testaceæ, linea basali fusca duplicata diffusa, linea exteriore apud angulum interiorem valde dilatata, orbiculari et reniformi testaceis.*

Female. Whitish, stout. Head ferruginous above. Palpi ferruginous, porrect, short, broad. Antennæ rather stout. Abdo-

men extending a little beyond the hind wings; hind borders of the segments white. Legs white, smooth; fore knees, fore tibiæ towards the tips and bands of the fore tarsi black. Wings elongate, iridescent, semihyaline; interior and exterior lines brown, irregular, the latter bent; marginal line brown, very incomplete and irregular; fringe white, with pale brown dots. Fore wings acute, testaceous along the costa, with a double diffuse brown basal line; interior line somewhat dilated; exterior line much dilated by the interior angle; orbicular and reniform marks testaceous, approximate. Hind wings with the interior line nearly obsolete. Length of the body 6 lines; of the wings 16 lines.

Rio Janeiro. In Mr. Fry's collection.

143. Botys Turnusalis.

Fœm. *Lutea, subtus nigricans; palpi nigricantes, ascendentes, brevissimi, latissimi; thorax antice rufus; abdomen ex parte rufescens, segmentis flavo marginatis; pedes albidi, femoribus anterioribus tibiisque antice nigricante marginatis; alæ lituris rufis, linea submarginali denticulata, linea marginali subinterrupta; anticæ apud costam nigram rufæ, linea basali et exteriore subobsoletis, orbiculari et reniformi maximis rufo marginatis, annulo postico.*

Female. Luteous, blackish beneath. Palpi blackish, ascending, very short, broad and obtuse. Thorax red in front. Abdomen partly reddish, hardly extending beyond the hind wings; hind borders of the segments yellow. Legs whitish, smooth, slender; anterior femora and fore tibiæ blackish. Wings moderately broad, with red markings; submarginal line denticulated; marginal line slightly interrupted by the veins; fringe whitish cinereous, interlined near the base. Fore wings acute, red along the costa, which is black; some slight indications of the basal and exterior lines; orbicular and reniform marks very large, red-bordered, the former contiguous to a hindward red ringlet. Length of the body 4¼ lines; of the wings 12 lines.

Rio Janeiro. In Mr. Fry's collection.

144. Botys Protenoralis.

Fœm. *Lutea, sat gracilis; palpi porrecti, breves, lati, nigri, subtus albi; antennæ sat validæ; thoracis latera antica nigricantia,*

pedes albi, ex parte nigricantes ; alæ linea exteriore rufescente undulata, linea marginali e guttis elongatis fuscescentibus, orbiculari et reniformi rufescente marginatis, annulo postico rufescente, costa subtus nigricante ; posticæ annulo discali nigricante.

Female. Luteous, rather slender, white beneath. Palpi porrect, short, broad, black, white beneath ; joints indistinct. Antennæ rather stout. Thorax blackish on each side in front. Abdomen extending very little beyond the hind wings. Legs smooth, white, partly blackish. Wings with the exterior line undulating, reddish ; marginal line composed of elongated brownish dots. Fore wings with the orbicular and reniform forming two reddish ringlets, the latter subquadrate ; a third ringlet behind the orbicular; under side with the costa and the borders of the discal marks blackish. Hind wings with an elongated discal ringlet corresponding to the reniform mark. Length of the body 4 lines ; of the wings 12 lines.

a. Ega. From Mr. Bates' collection.
b. Santarem. From Mr. Bates' collection.

145. Botys Claudiusalis.

Fœm. *Lutea, gracilis ; caput subtus et pectus antice alba ; palpi porrecti, rostriformes, fusci, subtus albi, non lati ; alæ sat latæ, linea exteriore denticulata ferruginea subobsoleta, linea marginali ferruginea tenui, fimbria cinerea nitente ; anticæ valde acutæ, macula discali ferruginea.*

Female. Luteous, slender, whitish beneath. Head beneath and fore part of the pectus white. Palpi porrect, brown, rostriform, not broad, white beneath, about as long as the head. Abdomen hardly extending beyond the hind wings. Legs smooth, slender. Wings moderately broad, with some slight traces of a denticulated ferruginous exterior line ; marginal line ferruginous, slight; fringe cinereous, shining, full. Fore wings very acute, with a ferruginous discal spot, which does not correspond to the reniform mark. Length of the body 5 lines ; of the wings 12 lines.

Brazil. In Mr. Saunders' collection.

146. Botys Phrynealis.

Purpurascente-cinerea, gracilis; palpi erecti, arcuati, non lati, articulo 3o gracili longi-conico distincto; antennæ glabræ; abdominis fasciculus apicalis subfurcatus; alæ nitentes, breviusculæ; anticæ vix acutæ, plagis duabus strigaque intermedia flavis, punctis marginalibus fuscis, fimbria cinerea; posticæ cinereæ, apud costam albæ.

Male. Purplish cinereous, slender, white beneath. Palpi vertical, curved, not broad; third joint slender, elongate-conical, minute, distinct. Antennæ smooth. Abdomen hardly extending beyond the hind wings; apical tuft slightly furcate. Legs smooth, slender. Wings shining, rather short. Fore wings hardly acute, with two yellow costal patches, which are nearly connected by an intermediate yellow costal streak; fringe cinereous. Hind wings cinereous, white along the costa. Length of the body 4 lines; of the wings 9 lines.

a. ——— ?

147. Botys Hellicalis.

Fœm. *Testacea, sat gracilis; caput rufescente-fuscum; palpi graciles, ascendentes; articulus 3us longi-conicus, 2i dimidio non brevior; antennæ sat validæ; pedes robusti; alæ breviusculæ, latiusculæ, cervino tinctæ, lineis interiore et exteriore fuscis duplicatis valde denticulatis, linea marginali nigricante; anticæ reniformi, linea basali lineaque postica media fuscis, linea marginali apud costam submarginali, costa fuscescente, margine exteriore convexo vix obliquo; posticæ margine exteriore subflexo.*

Female. Testaceous, rather slender. Head and palpi reddish brown; the latter slender, obliquely ascending; third joint elongate-conical, about half the length of the second. Antennæ rather stout. Abdomen not extending beyond the hind wings. Legs stout, smooth. Wings rather short and broad, mostly overspread with a fawn-coloured hue; interior and exterior lines brown, double, much denticulated; marginal line blackish, becoming submarginal towards the tips of the fore wings. Fore wings with the basal line, the reniform mark and the posterior middle line brown; costa brownish; exterior border convex, hardly oblique. Hind wings with the exterior border slightly bent. Length of the body 4½ lines; of the wings 12 lines.

a. Ega. From Mr. Bates' collection.

148. Botys Sabalis.

Mas. *Testaceo-cinerea, gracilis; palpi breves, lati, obtusi, porrecti, extus nigricantes; antennæ pubescentes; thorax antice cervinus; abdomen pallide ochraceum, segmentis albo marginatis; pedes antici nigricante varii; alæ fusco conspersæ, lineis interiore et exteriore nigricantibus, linea marginali nigra; anticæ costa lutea, linea exteriore flexa apud costam nigra dilatata, reniformi nigra.*

Male. Testaceous, cinereous, slender, testaceous beneath. Palpi short, broad, obtuse, porrect, partly blackish on the outer side. Antennæ stout, pubescent. Thorax fawn-colour in front. Abdomen pale ochraceous, extending far beyond the hind wings; hind borders of the segments white. Legs smooth; knees blackish; fore tibiæ blackish towards the tips. Wings somewhat speckled with brown; interior and exterior lines blackish; marginal line black. Fore wings acute; costa luteous; exterior line bent, dilated and black by the costa; reniform mark black. Length of the body 4½ lines; of the wings 9 lines.

Rio Janeiro. In Mr. Fry's collection.

Africa.

A. Alæ roseo marginatæ. - - - - marginalis, *Cram.*
B. Alæ roseo non marginatæ.
A. Alæ non albæ.
a. Alæ luteæ aut testaceæ.
a. Alæ late marginatæ.
i. Alæ luteæ. - - - - Hemusalis, *Walk.*
ii. Alæ non luteæ.
* Alæ angustæ - - - - Vibiusalis, *Walk.*
** Alæ sat latæ. - - - Mysisalis, *Walk.*
b. Alæ non late marginatæ.
i. Statura sat robusta. - - - Hirtusalis, *Walk.*
ii. Statura gracilis.
* Alæ flavæ. - - - - Procillusalis, *Walk.*
** Alæ testaceæ.
† Alæ latiusculæ. - - Albialis, *Walk.*
†† Alæ angustæ. - - verminalis, *Guen.*
B. Alæ non luteæ nec testaceæ.
a. Alæ anticæ perangustæ.

i. Alæ posticæ non dilatatæ. - - Eanesalis, *Walk.*
ii. Alæ posticæ dilatatæ. - - - Sinisalis, *Walk.*
b. Alæ anticæ non perangustæ.
i. Alæ anticæ albo notatæ.
* Alæ anticæ lituris bene determinatis. Ovialis, *Walk.*
** Alæ anticæ lituris non bene determinatis. Sarronalis, *Walk.*
ii. Alæ anticæ albo non notatæ.
* Alæ fimbria postica alba. - Niphealis, *Walk.*
** Alæ fimbria postica non alba.
† Alæ lineis obsoletis aut indistinctis.
‡ Alæ amplæ.
§ Palpi obtusi. - - Ladonalis, *Walk.*
§§ Palpi acuti. - - Ceadesalis, *Walk.*
‡‡ Alæ angustæ. - - Triarialis, *Walk.*
† Alæ lineis distinctis.
‡ Alæ fuscæ.
§ Alæ lineis diffusis. - Otreusalis, *Walk.*
§§ Alæ lineis non diffusis.
× Alæ longiusculæ. Caniusalis, *Walk.*
×× Alæ non longiusculæ. Pœonalis, *Walk.*
‡‡ Alæ cinerascentes. - Neoclesalis, *Walk.*
B. Alæ non albæ. - - - - - Morysalis, *Walk.*

The species will form the following groups:—

Group 1.

Marginalis.

Group 2.

Verminalis, Mysisalis, Vibiusalis, Neoclesalis.

Group 3.

Sinisalis.

Group 4.

Sarronalis, Ovialis, Otreusalis, Ladonalis, Caniusalis, Niphealis, Pœonalis, Triarialis.

Group 5.

Ceadesalis.

Group 6.

Eanesalis.

Group 7.

Albialis, Procillusalis.

Group 8.

Morysalis.

Group 9.

Hirtusalis.

Group 10.

Hemusalis.

149. Botys marginalis.

Flavescens; caput, thorax anticus et abdominis vitta rosea; alæ iridescentes, semihyalinæ, maculis quatuor marginalibus roseis; anticæ costa dentato rosea.

Phalæna-Geometra marginata, *Cram. Pap. Exot.* iv. 243, pl. 400, f. 1.
Phalæna sinuata, *Fabr. Ent. Syst.* iii. 208, 295.
Botys marginata, *Swainson, Zool. Illustr.* ii. pl. 77.
Botys marginalis, *Guen. Delt. et Pyral.* 343, 394.

a. Congo. Presented by Sir J. Richardson.
b. Port Natal. From M. Gueinzius' collection.
c. Ashanti. From the Wesleyan Missionary Society's collection.
d, *e*. Africa. From Mr. Milne's collection.
f. Sierra Leone. Presented by the Rev. D. F. Morgan.

150. Botys verminalis.

Fœm. B. detritali *simillima; alæ magis flavescentes et rotundatæ, minus lanceolatæ, fusco vix marginatæ, nebula discali exteriore denticulata; anticæ costa non fusca, macula reniformi sublunulata.*

Botys verminalis, *Guen. Delt. et Pyral.* 348, 406.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.
b, *c*. Sierra Leone. From Mr. Foxcroft's collection.

151. Botys Mysisalis.

Fœm. *Flavescens; caput et thorax anticus cervina; palpi cervini, obtusi, vix ascendentes, subtus albi; abdomen guttis duabus basalibus fuscis; alæ lineis interiore et exteriore denticulatis margineque purpurascentibus, linea exteriore valde flexa; anticæ apud costam subochraceæ, orbiculari et reniformi nigricantibus, hac parva.*

Female. Yellowish, white beneath. Head and fore part of the thorax fawn-colour. Palpi fawn-colour, hardly ascending, obtuse at the tips, white beneath; joints indistinct. Abdomen not extending beyond the hind wings, with a brown dot on each side near the base. Legs smooth. Wings with the denticulated interior and exterior lines and a band along the exterior border purplish; exterior line much bent. Fore wings somewhat ochraceous along the costa; orbicular and reniform marks blackish, the latter small. Length of the body 5 lines; of the wings 12 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

152. Botys Vibiusalis.

Fœm. *Flavescente-alba, gracilis; palpi pallide fusci, porrecti, breves, lati, obtusi; abdomen apice testaceum, alas posticas perpaullo superans; alæ sat angustæ, iridescentes, semihyalinæ, fascia marginali pallide cinereo-fusca intus undulata fusco marginata; anticæ vix acutæ, lineis interiore et media pallide fuscis, hac abbreviata, reniformi sat magna, posticæ linea interiore.*

Female. Yellowish white, slender, white beneath. Palpi pale brown, porrect, short, broad, obtuse, white beneath; third joint extremely minute, concealed by the hairs. Abdomen testaceous at the tip, extending very little beyond the hind wings. Legs smooth. Wings rather narrow, iridescent, semihyaline, with a pale cinereous-brown marginal band, which is undulating and bordered with brown on the interior side. Fore wings hardly acute; interior and middle lines pale brown, the latter ending in the reniform mark, which is rather large and of the same hue. Hind wings with an interior line. Length of the body 3 lines; of the wings 7 lines.

a. Congo. Presented by Sir J. Richardson.

153. Botys Neoclesalis.

Mas. *Cervina, gracilis ; palpi porrecti, longiusculi, latissimi, obtusi ; antennæ squamosæ ; abdomen alas posticas sat superans ; fasciculus apicalis albo quadrilineatus ; alæ sat angustæ, iridescentes, semihyalinæ, lineis tribus purpurascente-fuscis, fimbria albida basi testacea fusco interlineata ; anticæ peracutæ, postice pallidiores, linea interiore apud costam subangulata, linea exteriore valde flexa, reniformi e lunula truncata obscure fusca ; posticæ albidæ.*

Male. Fawn-colour, slender, whitish beneath. Palpi porrect, rather long, very broad, obtuse, white beneath ; third joint concealed by the hairs. Antennæ squamous. Abdomen extending somewhat beyond the hind wings ; apical tuft with four white lines. Legs smooth. Wings rather narrow, iridescent, semihyaline, with three purplish brown lines ; marginal line brown ; fringe whitish, testaceous at the base, interlined with brown. Fore wings very acute, paler hindward ; interior line slightly bent on approaching the costa ; exterior line as usual much bent ; reniform mark distinguished by a dark brown truncate lunule. Hind wings whitish, except towards the border. Length of the body 5 lines ; of the wings 10 lines.

a. Cape. Presented by Sir A. Smith.

154. Botys Sinisalis.

Mas. *Cervina, gracilis ; palpi porrecti, latiusculi, non longi, articulo 3o minimo ; antennæ subsetulosæ ; abdomen alas posticas longe superans, segmentis albido marginatis ; tibiæ intermediæ subincrassatæ ; alæ testaceo-cinereæ, iridescentes, semihyalinæ, fimbria alba ; anticæ perangustæ, lituris subobsoletis ; posticæ pallidiores, magis hyalinæ, apud costam dilatatæ, margine exteriore subundulato.*

Male. Fawn-colour, slender, white and shining beneath. Palpi porrect, rather broad, not long, white beneath ; third joint very minute, concealed by the hairs. Antennæ very minutely setulose. Abdomen extending far beyond the hind wings ; hind borders of the segments whitish. Legs smooth ; middle tibiæ slightly thickened. Wings testaceous-cinereous, iridescent, semihyaline ; fringe white, shining. Fore wings very narrow, with almost obsolete traces of lines and of the discal marks ; exterior border extremely oblique. Hind wings paler and more hyaline than the fore wings, somewhat

dilated along the costa; exterior border slightly undulating. Length of the body 6 lines; of the wings 12 lines.

a. Congo. Presented by Sir J. Richardson.

155. Botys Sarronalis.

Mas. *Cinereo-fusca, gracilis; caput subtus et pectus anticum candida; palpi erecti, vix lati; antennæ squamosæ; alæ cupreo tinctæ, lineis duabus fuscis diffuse albido marginatis, linea marginali albida bene determinata; anticæ vix acutæ, orbiculari et reniformi albido notatis, linea exteriore valde flexa, macula costali alba.*

Male. Cinereous-brown, slender, whitish beneath. Head beneath and fore part of the pectus shining white. Palpi erect, ascending higher than the head; second joint moderately broad; third conical, very minute. Antennæ squamous. Abdomen extending somewhat beyond the hind wings. Legs smooth, slender. Wings with a cupreous tinge, moderately broad; interior and exterior lines brown, diffusedly whitish-bordered; marginal line whitish, very distinct. Fore wings hardly acute; orbicular and reniform spots whitish-marked; exterior line much bent, ending in a white costal spot. Length of the body 6 lines; of the wings 12 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

156. Botys Ovialis.

Cinereo-fusca, gracilis; palpi ascendentes, lati, obtusi, subtus candidi; alæ cupreo tinctæ, lineis interiore et exteriore fuscis albo maculatis; anticæ linea exteriore valde flexa, reniformi e striga arcuata albida, macula interiore elongata quadrata alba.

Cinereous-brown, slender, whitish beneath. Palpi broad, obtuse, ascending obliquely, pure white beneath; third joint indistinct. Antennæ rather long and slender. Legs slender, smooth. Wings moderately broad, with a cupreous tinge; interior and exterior lines brown, accompanied by white spots; fringe cinereous, long, full. Fore wings acute; exterior line much bent; an elongated quadrate white spot on the inner side of the reniform mark, which is distinguished by a curved whitish streak. Hind wings whitish along the costa. Length of the body 7? lines; of the wings 14 lines.

a, *b*. Congo. Presented by Sir J. Richardson.

157. Botys Otreusalis.

Fœm. *Fusca; caput subtus et pectus anticum alba; palpi lati, porrecti, subrostriformes; alæ lineis interiore et exteriore diffusis denticulatis indistinctis obscurioribus, linea marginali pallida lineaque interiore lunulata fusca contiguis, fimbria cinerea basi fusca; anticæ acutæ, linea exteriore valde flexa, orbiculari et reniformi indistinctis; posticæ pallidiores.*

Female. Brown, moderately stout, pale cinereous beneath. Head beneath and fore part of the pectus white. Palpi broad, porrect, subrostriform, about as long as the head; third joint very minute. Abdomen extending a little beyond the hind wings. Legs smooth. Wings moderately broad; interior and exterior lines diffuse, denticulated, indistinct, a little darker than the ground-colour; marginal line pale, accompanied by an inner lunulate brown line; fringe cinereous, brown at the base. Fore wings acute; exterior line much bent; orbicular and reniform spots indistinctly marked in brown. Hind wings paler than the fore wings. Length of the body 5 lines; of the wings 12 lines.

a. Congo. Presented by Sir J. Richardson.

158. Botys Ladonalis.

Mas. *Fusca, sat gracilis, subtus testacea; palpi ascendentes; articulus 3us conicus, 2i dimidio non brevior; antennæ sat validæ, non pubescentes; abdomen alas posticas perparum superans; alæ amplæ, lineis nullis; anticæ vix acutæ, orbiculari et reniformi nigricantibus indistinctis, linea exteriore subobliqua.*

Male. Brown, rather slender, testaceous beneath. Palpi obliquely ascending, moderately broad; third joint conical, about half the length of the second. Antennæ rather stout, not pubescent. Abdomen extending very little beyond the hind wings. Legs smooth. Wings ample, without lines. Fore wings hardly acute; orbicular and reniform marks blackish, indistinct; exterior border slightly oblique. Length of the body 6 lines; of the wings 16 lines.

a. West Africa.

159. Botys Caniusalis.

Mas. *Cinereo-fusca, gracilis; palpi ascendentes, lati, articulo 3o minimo; antennæ sat validæ, non pubescentes; abdomen alas posticas sat longe superans; tibiæ anteriores incrassatæ; alæ lineis interiore et exteriore nigricantibus subdenticulatis, fimbria postica alba; anticæ acutæ, linea exteriore valde flexa, orbiculari et reniformi nigricantibus.*

Male. Cinereous-brown, slender, dingy whitish beneath. Palpi ascending, broad, whitish beneath towards the base; third joint extremely small. Antennæ rather stout, not pubescent. Pectus white and shining in front. Abdomen extending rather far beyond the hind wings; hind borders of the segments paler. Legs smooth; anterior tibiæ somewhat thickened. Wings moderately broad; interior and exterior lines blackish, slightly denticulated; fringe white towards the interior angle. Fore wings acute; exterior line much bent; orbicular and reniform marks blackish. Length of the body 7 lines; of the wings 16 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

160. Botys Niphealis.

Fœm. *Fusca, gracilis; palpi ascendentes, breves, lati, valde obtusi; abdomen alas posticas paullo superans, subtus apice luteum; pedes appressi; antici ex parte lutei; postici ex parte fuscescentes; alæ lineis interiore et exteriore nigricantibus, fimbria postice alba; anticæ vix acutæ, apud costam subtestaceæ, orbiculari et reniformi nigricantibus; posticæ apud costam albæ.*

Female. Brown, slender, white beneath. Palpi ascending, short, broad, very obtuse, white beneath; third joint extremely minute. Abdomen extending a little beyond the hind wings, luteous beneath at the tip. Legs smooth, somewhat flattened; hind legs partly pale brown above; fore legs partly luteous. Wings moderately broad; interior and exterior lines blackish; fringe cinereous-white hindward, blackish at the base. Fore wings hardly acute, somewhat testaceous along the costa; orbicular and reniform marks blackish. Hind wings white along the costa. Length of the body 5 lines; of the wings 12 lines.

a. Sierra Leone. From Mr. Foxcroft's collection.

161. Botys Pœonalis.

Fœm. *Cinereo-fusca, gracilis; palpi ascendentes, nigricantes, breves, lati, valde obtusi; abdomen alas posticas paullo superans; alæ subiridescentes, lineis duabus nigricantibus; anticæ acutæ, linea exteriore valde flexa, orbiculari et reniformi nigricantibus, hac apud medium contracta.*

Female. Cinereous-brown, slender, whitish beneath. Palpi ascending, blackish, short, broad, very obtuse, white beneath; third joint extremely minute. Pectus shining white in front. Abdomen extending a little beyond the hind wings. Legs smooth. Wings moderately broad, slightly iridescent; interior and exterior lines blackish. Fore wings acute; exterior line very much bent; orbicular and reniform marks blackish, the latter contracted in the middle. Length of the body 5 lines; of the wings 12 lines.

a, *b*. Sierra Leone. Presented by the Rev. D. F. Morgan.

162. Botys Triarialis.

Mas. *Fusca, gracilis; palpi lati, vix ascendentes, subrostriformes; antennæ subpubescentes; abdomen cinereum; pedes antici fuscescentes; alæ angustæ, subpurpurascentes; lineis obscuris subobsoletis; anticæ acutæ, reniformi nigricante parva, margine exteriore perobliquo.*

Male. Brown, slender, whitish beneath. Palpi broad, very slightly ascending, nearly rostriform, white beneath, Antennæ minutely pubescent. Pectus shining white in front. Abdomen cinereous. Legs smooth; fore legs brownish. Wings narrow, with a purplish tinge; lines dark, very indistinct. Fore wings acute; reniform mark blackish, small; exterior border very oblique. Length of the body 5? lines; of wings 10 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

163. Botys Ceadesalis.

Mas. *Fuscescente-cinerea, sat gracilis; palpi fusci, porrecti, subrostriformes, non longi; articulus 3us longi-conicus, 2i dimidio brevior; antennæ subpubescentes; abdomen alas posticas superans, fasciculo apicali nigricante; alæ sat amplæ, lineis interiore et exteriore fuscescentibus indistinctis; anticæ acutæ, orbiculari et reniformi fuscescentibus indistinctis.*

Male. Brownish cinereous, rather slender, white beneath. Palpi brown, porrect, slightly rostriform, not long, white beneath; third joint elongate-conical, less than half the length of the second. Antennæ minutely pubescent. Abdomen extending somewhat beyond the hind wings; apical tuft blackish. Legs smooth. Wings somewhat ample; interior and exterior lines brownish, indistinct. Fore wings acute; orbicular and reniform marks brownish, indistinct. Length of the body 7 lines; of the wings 16 lines.

a. Ashanti. From the Wesleyan Missionary Society's collection.

164. Botys Eanesalis.

Fuscescente-cinerea, gracilis; palpi ascendentes, subarcuati, non lati, articulo 3o minuto conico; pedes glabri, gracillimi; alæ longæ, perangustæ, lineis interiore et exteriore nigricantibus denticulatis albido marginatis; anticæ acutæ, linea exteriore valde flexa, orbiculari et reniformi angustis nigricante marginatis, hac obliqua, margine exteriore perobliquo.

Brownish cinereous, slender, whitish beneath. Palpi obliquely ascending, slightly curved, not broad; third joint minute, conical. Legs smooth, very slender. Wings long, very narrow; interior and exterior lines blackish, denticulated, whitish bordered; marginal lunules blackish, marginal line whitish, very slender. Fore wings acute; exterior line extremely bent; orbicular and reniform marks narrow, with blackish borders, the latter oblique; exterior border extremely oblique. Length of the body 5? lines; of the wings 10 lines.

a. Cape. From M. Dregé's collection.

165. Botys? Albialis.

Mas. *Testacea, sat gracilis, fusco subconspersa; palpi ascendentes, graciles, longiusculi, vix angulati, articulo 3o conico acuto; antennæ setulosæ; abdomen alas posticas non superans.; alæ latiusculæ, non longæ, lineis interiore et exteriore fuscis, hac subundulata; anticæ acutæ, reniformi fusca parva.*

Male. Testaceous, rather slender, slightly and minutely speckled with brown. Palpi obliquely ascending, slender, rather long; third joint acutely conical, not more than one-fourth of the length of the second, with which it forms a slight angle. Antennæ very distinctly setulose. Abdomen not extending beyond the hind

wings. Legs smooth. Wings rather broad, not long; interior and exterior lines brown, slight, the latter slightly undulating. Fore wings acute; reniform mark brown, small. This species is perhaps not a *Botys*, but does not differ more than some other species from the type. Length of the body 4 lines; of the wings 10 lines.

a. South Africa. Presented by Sir A. Smith.

166. Botys Procillusalis.

Mas. *Flava, sat gracilis; palpi fusci, porrecti, subrostriformes, non longi, articulo 3o conico acuto; abdomen alas posticas non superans; alæ latiusculæ, non longæ, lineis interiore et exteriore fuscis guttularibus, fimbria albida; anticæ vix acutæ, apud costam cervinæ, reniformi fusca rotunda, margine exteriore subobliquo.*

Male. Yellow, rather slender. Palpi brown, porrect, slightly rostriform, not long, white beneath towards the base; third joint minute, acutely conical. Abdomen not extending beyond the hind wings. Legs smooth. Wings rather broad, not long; interior and exterior lines composed of brown dots; fringe whitish, shining. Fore wings hardly acute, fawn-colour, along the costa; reniform mark brown, round, adjoining the costal stripe; exterior border slightly oblique. Length of the body 3½ lines; of the wings 8 lines.

a. Capé. Presented by Sir A. Smith.

167. Botys? Morysalis.

Fœm. *Alba, gracillima; palpi cinerei, porrecti, rostriformes, longiusculi; articulus 3us conicus, acutus, 2i dimidio brevior; antennæ longiusculæ; abdomen attenuatum, apice valde acutum; pedes longi, gracillimi; alæ latiusculæ, lineis interiore et exteriore undulatis interruptis; anticæ acutæ, costa cervina, reniformi angusta albo strigata.*

Female. White, very slender. Palpi cinereous, porrect, rostriform, rather long, moderately broad, white beneath; third joint acutely conical, less than half the length of the second. Antennæ rather long. Abdomen much attenuated, ending in a very acute tip, not extending far beyond the hind wings. Legs long, smooth, very slender. Wings rather broad; lines fawn-colour; interior and exterior lines undulating, interrupted; marginal line interrupted

by the veins. Fore wings acute, with a fawn-coloured costal stripe, which joins the orbicular and reniform marks; the latter narrow, enclosing a white line. Length of the body 5 lines; of the wings 10 lines.

a. Port Natal. From M. Gueinzius' collection.

168. Botys Hirtusalis.

Fœm. *Lutea, sat valida; palpi ascendentes, fusci, breves, lati, obtusi; pedes antici fusco varii; alæ lineis interiore et exteriore purpurascente-ferrugineis diffusis maculatibus, costa subaurata, fimbria aurato-flava; anticæ vix acutæ, lineis quatuor aut quinque fuscis, linea media latiore; posticæ flavæ, margine exteriore luteo.*

Female. Luteous, rather stout, whitish beneath. Palpi ascending, brown, short, broad, obtuse, white beneath towards the base; third joint extremely minute. Legs smooth; fore femora and fore tibiæ brown, the latter white towards the base; fore tarsi with a brown dot above and with brown tips. Wings moderately broad; interior and exterior lines composed of purplish ferruginous diffuse spots; costa slightly gilded; fringe pale yellow, gilded. Fore wings hardly acute, with four or five lines; the middle one broader and more complete than the others. Hind wings yellow; exterior border luteous. Length of the body 6 lines; of the wings 16 lines.

a. Port Natal. From M. Gueinzius' collection.

169. Botys Hesusalis.

Fœm. *Lutea, gracilis; palpi ascendentes, breves, lati; abdomen alas posticas paullo superans; alæ anticæ acutæ, triente exteriore ochraceo-fusca; posticæ fascia marginali ochraceo-fusca postice attenuata.*

Female. Luteous, slender. Palpi ascending, short, broad; third joint extremely minute. Abdomen extending a little beyond the hind wings. Legs smooth. Wings moderately broad. Fore wings acute; the third part from the exterior border ochraceous-brown. Hind wings with an ochraceous-brown border, which is attenuated hindward, and corresponds in outline with the dark part of the fore wings. Length of the body 6 lines; of the wings 15 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

Mauritius.

170. Botys Childrenalis.

Alæ luteæ, opalino micantes; anticæ strigis sinuatis quatuor fuscis; posticæ strigis duabus.

Botys Childrenalis, *Boisd. Faune Ent. Mad. Bourb. et Maur. Lép.* 118, 4.

Madagascar. Bourbon.

171. Botys Poeyalis.

Alæ pallide lutescentes lineis transversis margineque fuscescentibus; anticæ ad costam tuberculo elevato sericeo.

Botys Poeyalis, *Boisd. Faune Ent. Mad. Bourb. et Maur. Lép.* 118, 5.

Bourbon. Mauritius.

172. Botys Neloalis.

Mas. *Cinereo-fusca, sat robusta; caput et thorax fusca; palpi porrecti, breves, lati, obtusi; antennæ subpubescentes; abdomen fuscescente-cinereum, alas posticas paullo superans, segmentis albido marginatis; alæ lineis obscure fuscis diffusis undulatis indistinctis, margine exteriore obscuriore, fimbria cinerea fusco interlineata basi testacea; antice acutæ, orbiculari et reniformi obscure fuscis diffusis.*

Male. Cinereous-brown, moderately stout, whitish beneath. Head and thorax brown. Palpi porrect, short, broad, obtuse, white beneath; third joint concealed. Antennæ slightly pubescent. Abdomen brownish cinereous, extending a little beyond the hind wings; hind borders of the segments whitish. Legs smooth. Wings moderately broad; lines dark brown, diffuse, undulating, not distinct; exterior border somewhat darker; fringe cinereous, interlined with brown, testaceous at the base. Fore wings acute; orbicular and reniform marks dark brown, rather diffuse. Length of the body 4½ lines; of the wings 10 lines.

a. Mauritius. From Dr. Becke's collection.

Asia.

A. Alæ late marginatæ.
A. Alæ anticæ apud costam obscuræ.
A. Thoracis latera ferruginea. - - Dryopealis, *Walk.*
B. Thoracis latera non ferruginea.
a. Alæ elongatæ. - - - - abjungalis, *Walk.*
b. Alæ non elongatæ.
i. Alæ anticæ costa fasciculata.
* Alæ anticæ linea exteriore recta. - Iolealis, *Walk.*
** Alæ anticæ linea exteriore angulata. ruralis, *Walk.*
ii. Alæ anticæ costa non fasciculata.
* Alæ anticæ linea exteriore recta. rutilalis, *Walk.*
** Alæ anticæ linea exteriore undulata.
Eurycleali, *Walk.*
B. Alæ anticæ apud costam non obscuræ.
A. Alæ fimbria albo notata. - - - Tullalis, *Walk.*
B. Alæ fimbria albo non notata.
a. Alæ posticæ vix marginatæ. - Diniasalis, *Walk.*
b. Alæ posticæ late marginatæ.
i. Statura magna.
* Alæ anticæ reniformi nigra. - Scinisalis, *Walk.*
** Alæ anticæ reniformi rufescente. - sellalis, *Guen.*
A. Alæ albæ. - - - - - - celsalis, *Walk.*
B. Alæ sulphureo-albæ. - - - - - incoloralis, *Guen.*
C. Alæ non albæ.
a. Antennæ non pectinatæ.
i. Alæ cinereæ. - - - admixtalis, *Walk.*
ii. Alæ testaceæ. - - - - Nephealis, *Walk.*
b. Antennæ subpectinatæ. - - Sabelialis, *Guen.*
c. Antennæ valde pectinatæ. - pectinicornalis, *Guen.*
* Alæ anticæ punctis nullis.
† Alæ lineis guttularibus. - Thaisalis, *Walk.*
†† Alæ lineis non guttularibus. Myrinalis, *Walk.*
** Alæ anticæ punctis nonnullis. - annulalis, *Walk.*
B. Alæ non late marginatæ.
A. Alæ anticæ apud costam obscuræ. - - celsalis, *Walk.*
B. Alæ anticæ apud costam non obscuræ.
A. Alæ rufæ. - - - - - - - Vulsalis, *Walk.*
B. Alæ non rufæ.
a. Alæ lituris variis.
i. Alæ luteæ aut flavæ.

* Alæ posticæ linea interiore antice furcata.
Amyntusalis, *Walk.*
** Alæ posticæ linea interiore non furcata.
Iopasalis, *Walk.*
ii. Alæ albidæ.
* Statura robusta.
† Abdomen maculatum. - - illisalis, *Walk.*
†† Abdomen non maculatum. Monesusalis, *Walk.*
** Statura gracilis. - - - multilinealis, *Guen.*
b. Alæ lituris non variis.
i. Alæ albo notatæ.
* Alæ posticæ albo notatæ
† Alæ purpurascentes. - - Œmealis, *Walk.*
†† Alæ non purpurascentes. - - tropicalis, *Walk.*
** Alæ posticæ albo non notatæ.
† Alæ posticæ pallidæ. - - histricalis, *Walk.*
†† Alæ posticæ obscuræ. - - adductalis, *Walk.*
ii. Alæ albo non notatæ.
* Alæ cinereæ aut albidæ.
† Statura non gracillima.
‡ Alæ anticæ peracutæ. - ablactalis, *Walk.*
‡‡ Alæ anticæ non peracutæ.
§ Alæ anticæ linea exteriore valde flexa.
ultimalis, *Walk.*
§§ Alæ anticæ linea exteriore non valde flexa.
deductalis, *Walk.*
†† Statura gracillima.
‡ Abdomen longissimum. - Damasalis, *Walk.*
‡‡ Abdomen non longissimum. Atossalis, *Walk.*
** Alæ fusco-cinereæ.
† Alæ plaga costali. - - phycidalis, *Walk.*
†† Alæ plaga nulla costali.
‡ Statura robusta. - - unitalis, *Guen.*
‡‡ Statura non robusta.
§ Statura sat magna. - Megesalis, *Walk.*
§§ Statura minor.
× Alæ lineis bene determinatis.
adhæsalis, *Walk.*
×× Alæ lineis diffusis.
abstrusalis, *Walk.*
*** Alæ cervino variæ. - - Scapulalis, *Walk.*
**** Alæ anticæ cervinæ.

† Alæ fimbria alba. - illectalis, *Walk.*
†† Alæ fimbria non alba.
‡ Alæ lituris discalibus nigris.
admensalis, *Walk.*
‡‡ Alæ lituris discalibus non nigris
§ Alæ elongatæ. Caletoralis, *Walk.*
§§ Alæ non elongatæ. zealis, *Guen.*
***** Alæ testaceo-cinereæ.
† Alæ anticæ linea exteriore non valde flexa. - - suspicalis, *Walk.*
†† Alæ anticæ linea exteriore valde flexa.
stultalis, *Walk.*
****** Alæ ochraceo-cinereæ. - Thyalis, *Walk.*
******* Alæ testaceæ. - brevilinealis, *Walk.*
******** Alæ flavescentes.
† Alæ plagiatæ. - plagiatalis, *Walk.*
†† Alæ non plagiatæ.
‡ Alæ posticæ macula apicali.
Anaxisalis, *Walk.*
‡‡ Alæ posticæ macula nulla apicali.
§ Alæ posticæ macula cuprea.
Cynaralis, *Walk.*
§§ Alæ posticæ macula nulla cuprea.
× Alæ opacæ.
0 Alæ anticæ linea exteriore valde flexa.
Celatalis, *Walk.*
00 Alæ anticæ linea exteriore non valde flexa.
Damoalis, *Walk.*
×× Alæ semihyalinæ.
Amphisalis, *Walk.*
********* Alæ luteæ.
† Statura magna. - Caldusalis, *Walk.*
†† Statura parva. - - Dialis, *Walk.*
********** Alæ nigricante-fuscæ. - lunalis, *Guen.*

Most of the species may be arranged in the following groups:—

Group 1.

Pectinicornalis, Sabelialis.

Group 2.

Sellalis, Scinisalis, Tullalis, Diniasalis, Caldusalis, Caletoralis, Eurycleali, Iopasalis, admensalis, Monesusalis, illisalis, celsalis, histricalis.

Group 3.

Unitalis.

Group 4.

Zealis, incoloralis, Damoalis, Celatalis, Scapulalis, Anaxisalis, illectalis.

Group 5.

Deductalis, ultimalis, ablactalis, Amphisalis.

Group 6.

Multilinealis, Amyntusalis.

Group 7.

Lunalis, Megesalis, abstrusalis, adhæsalis, Atossalis, admixtalis, rutilalis, Iolealis, ruralis, Thyalis, suspicalis, Damasalis, stultalis, adductalis, tropicalis.

Group 8.

Abjungalis.

Group 9.

Œmealis.

Group 10.

Vulsalis.

173. Botys pectinicornalis.

Mas. *Pallide flavescente-testacea; palpi rostriformes, acuti; antennæ valde pectinatæ, ramis pubescentibus; abdomen crassum, apice rufescens, obtusum; alæ anticæ dimidio basali magis opaco lineis duabus nebulosis parallelis nigricante-cinereis, dimidio apicali subhyalino, lineis duabus submarginalibus interruptis; posticæ pallidiores, lineis tribus undulatis vix conspicuis.*

Botys pectinicornalis, *Guen. Delt. et Pyral.* 326, 351.

Hindostan.

174. Botys sabelialis.

Mas. *Pallide flava; palpi rostriformes, incumbentes; antennæ subpectinatæ; alæ anticæ trigonæ, productæ, basi costaque basali infuscatis, macula discali magna nigricante ramos duos pallidiores usque ad marginem interiorem emittente, lineis duabus posticis flexuosis macularibus pallide fuscis; posticæ pallidiores, lineis duabus fuscescentibus flexuosis macularibus indistinctis.*

Botys sabelialis, *Guen. Delt. et Pyral.* 326, 352.

Hindostan.

175. Botys sellalis.

Lutea, subtus flava; palpi ascendentes, breves, lati, obtusi; pectus anticum album nitens; alæ lineis deviis margineque exteriore lato rufescentibus; anticæ acutæ, orbiculari punctiformi et reniformi annuliformi rufescentibus; posticæ annulo discali rufescente.

Botys sellalis, *Guen. Delt. et Pyral.* 330, 363.

a. Ceylon, Presented by R. Templeton, Esq.
b. Punjaub. Presented by Gen. Hearsay.
c, d. Hindostan. From the Entomological Society's collection.
e. Hindostan. From Archdeacon Clerk's collection.
f. North Hindostan. From Mr. James' collection.
g. North Hindostan. From Mr. Stevens' collection.
h. Nepaul. Presented by Major-General Hardwicke.
i. Silhet. From the Rev. J. Stainforth's collection.
j. ———? From Mr. Lamb's collection.

176. Botys Scinisalis.

Mas. *Ochracea, sat robusta; palpi albidi, ascendentes, non lati, ex parte cervini, articulo 3o minimo; antennæ subpubescentes; abdomen alas posticas sat superans; tibiæ anticæ nigro fasciatæ; alæ amplæ, fascia marginali latissima cinereo-purpurascente; anticæ acutæ, macula costali subapicali diffusa ochracea, orbiculari et reniformi, guttis duabus aut tribus basalibus nigricantibus; posticæ macula discali nigricante.*

Male. Ochraceous, rather stout, white beneath. Palpi whitish, obliquely ascending, not broad, partly fawn-colour; third

joint extremely minute. Antennæ minutely pubescent. Abdomen extending somewhat beyond the hind wings. Legs smooth; anterior knees black; fore tibiæ with a black band. Wings ample, with a very broad cinereous purplish marginal band, which in the fore wings contains a diffuse costal ochraceous spot. Fore wings acute; orbicular and reniform marks blackish, full; two or three blackish dots near the base. Hind wings with a blackish discal spot. Length of the body 8 lines; of the wings 16 lines.

a. Hindostan. From Archdeacon Clerk's collection.

177. Botys Tullalis.

Mas et fœm. *Luteo-flava, sat gracilis; palpi cervini, porrecti, latissimi, longiusculi, subtus basi albi, articulo 3o longiconico; alæ amplæ, lineis interiore et exteriore fuscis denticulatis interruptis, fimbria alba maculis nigricante-fuscis; anticæ acutæ, spatio marginali rufescente-fusco marginata, linea basali nigricante incompleta, orbiculari nigra punctiformi, reniformi e annulo fusco.* Mas.—*Antennæ basi subpectinatæ; abdomen alas posticas sat superans.*

Male and female. Luteous-yellow, rather slender, whitish beneath. Palpi fawn-colour, porrect, very broad, as long as the head, white beneath towards the base; third joint elongate-conical, not more than one-fourth of the length of the second. Legs smooth. Wings ample; interior and exterior lines brown, denticulated, interrupted; fringe white, blackish brown at the base, and with blackish brown intervals. Fore wings acute; marginal space reddish, bounded by an undulating brown line; an incomplete blackish basal line; orbicular mark forming a black point; reniform represented by an elliptical brown ringlet. *Male.*—Antennæ slightly pectinated for nearly one-third of the length from the base. Abdomen extending somewhat beyond the hind wings. Length of the body 7 lines; of the wings 16 lines.

a. North Hindostan. From Mr. James' collection.
b. Silhet. From Mr. Stainforth's collection.

178. Botys Diniasalis.

Mas et fœm.—*Flava sat gracilis; caput cervinum, apud oculos album; palpi cervini, porrecti, subrostriformes, capite non breviores, subtus albi; abdomen alas posticas non superans;*

alæ elongatæ, lineis basali interiore et exteriore fuscescentibus interruptis subdenticulatis, linea submarginali bene determinata, fimbria albida basi fuscescente, anticæ acutæ, fascia marginali ferruginea costam non attingente, orbiculari et reniformi fuscis, hac lineolam albam arcuatam includente, illa minima; posticæ apice ferrugineæ. Mas.—*Abdominis fasciculus apicalis latus ferrugineus.*

Male and female. Yellow, rather slender, white beneath. Head fawn-colour, white about the eyes. Palpi fawn-colour, porrect, somewhat rostriform, as long as the head, white beneath: third joint very minute. Abdomen not extending beyond the hind wings. Legs smooth. Wings elongate; basal, interior and exterior lines brownish, slight, denticulated, interrupted; submarginal line more regular, interrupted by the veins; fringe whitish, brownish at the base. Fore wings acute, with an irregular ferruginous marginal band which does not extend to the costa; orbicular and reniform marks brown, the former very small, the latter containing a curved white line. Hind wings ferruginous at the tips. *Male.*—Abdomen with a broad testaceous apical tuft. Length of the body 4 lines; of the wings 12 lines.

a—c. Shanghai. From Mr. Fortune's collection.

179. Botys Caldusalis.

Mas. *Luteo-flava, gracilis; palpi cervini, porrecti, breves, obtusi, non lati; antennæ longiusculæ, non pubescentes; abdomen attenuatum, alas posticas longissime superans; pedes longiusculi; alæ elongatæ, lineis interiore exteriore et submarginali ferrugineis diffusis indistinctis interruptis, punctis marginalibus ferrugineis, fimbria cinerea; anticæ acutæ, costa ferruginea, linea exteriore valde flexa, orbiculari et reniformi ferrugineis parvis.*

Male. Luteous-yellow, slender. Palpi fawn-colour, porrect, short, obtuse, not broad; third joint extremely small. Antennæ rather long and slender, not pubescent. Abdomen attenuated, extending far beyond the hind wings. Legs smooth, rather long and slender. Wings elongate; interior, exterior and submarginal lines ferruginous, diffuse, indistinct, interrupted; marginal points ferruginous; fringe cinereous. Fore wings acute, ferruginous along the costa; exterior line much bent; orbicular and reniform marks

ferruginous, small. Length of the body 7 lines; of the wings 14—16 lines.

a, *b*. Hindostan. From the Entomological Society's collection.

180. Botys Caletoralis.

Mas. *Testacea, sat robusta; caput fuscum; palpi fusci, ascendentes, sat lati, subtus albi; antennæ non pubescentes; thoracis latera antica fusca; abdomen alas posticas longe superans; tibiæ anticæ fuscæ, pilosæ; alæ elongatæ, iridescentes, lineis interiore et exteriore fuscis denticulatis indistinctis, linea marginali obscure fusca, fimbria cinerea; anticæ acutæ, linea exteriore valde flexa, costa basi fusca, reniformi fusca lunulata tenuissima, margine exteriore perobliquo.*

Male. Testaceous, moderately stout, paler beneath. Head brown above. Palpi brown, ascending, moderately broad, white beneath; third joint extremely minute. Antennæ not pubescent. Thorax brown on each side in front. Abdomen extending far beyond the hind wings. Legs smooth; fore tibiæ brown, somewhat pilose. Wings elongate, iridescent; interior and exterior lines brown, denticulated, not distinct; marginal line dark brown; fringe cinereous. Fore wings acute; exterior line very much bent; costa brown towards the base; reniform mark brown, lunulate, very slender; exterior border very oblique. Length of the body 7 lines; of the wings 16 lines.

a. North Hindostan. From Mr. Stainforth's collection.

181. Botys Euryclealis.

Fœm. *Flava, sat gracilis; palpi cervini, porrecti, latiusculi, subtus albi, articulo 3o conico minimo; palpi maxillares distincti; thoracis latera antica cervina; abdomen subochraceum, alas posticas vix superans, segmentis flavo marginatis; tibiæ anticæ nigricantes, basi albæ; alæ apud marginem exteriorem fuscescente-purpureæ, linea exteriore valde flexa, fimbria cinerea; anticæ acutæ, costa fuscescente-purpurea, orbiculari et reniformi distinctis, hac obtuse lunulata.*

Female. Yellow, rather slender, white and shining beneath. Palpi fawn-colour, porrect, moderately broad, white beneath; third joint conical, extremely minute. Maxillary palpi distinct. Thorax fawn-colour on each side in front. Abdomen slightly ochraceous,

hardly extending beyond the hind wings; hind borders of the segments yellow. Legs white, smooth; fore knees and fore tibiæ blackish, the latter white towards the base. Wings moderately broad, brownish purple along the exterior border; interior and exterior lines of the same hue, the latter much bent; fringe cinereous, full. Fore wings acute, brownish purple along the costa; orbicular and reniform marks of the same hue, the latter obtusely lunulate. Length of the body 5 lines; of the wings 12 lines.

a. Hindostan. From Archdeacon Clerk's collection.

182. Botys Iopasalis.

Fœm. *Flava, sat gracilis; palpi fusci, ascendentes, arcuati, sat graciles, subtus fimbriati, articulo 3o brevi; abdomen alas posticas paullo superans; alæ elongatæ, lineis interiore et exteriore fuscescente-purpureis sæpe macularibus, hac flexâ, plaga magna subapicali purpurascente-fusca, guttis marginalibus fuscis; anticæ acutæ, guttis basalibus fuscis, orbiculari et reniformi fuscis, hac magna annuliformi, illa minima.*

Female. Yellow, rather slender. Palpi brown, curved, rather slender, fringed beneath, ascending higher than the vertex; third joint less than one-fourth of the length of the second. Abdomen extending a little beyond the hind wings. Wings elongate, interior and exterior lines purplish brown, often macular, the latter bent; a large subapical purplish brown patch; marginal dots brown. Fore wings acute, with a basal line of brown dots; orbicular and reniform marks brown, the former very small, the latter large, annular; exterior border moderately oblique. Length of the body 4—6 lines; of the wings 10—14 lines.

a—c. Hindostan. From Archdeacon Clerk's collection.
d. North Hindostan. From Mr. James' collection.

183. Botys admensalis.

Fœm. *Testacea, vix gracilis; palpi fusci, porrecti, breves, lati, subtus albi; abdomen alas posticas vix superans, guttis duabus basalibus nigricantibus; tibiæ anticæ fusco-fasciatæ; alæ lineis interiore et exteriore fuscescentibus indistinctis undulatis; anticæ vix acutæ, linea exteriore valde flexa, orbiculari et reniformi nigricantibus parvis; posticæ pallidiores.*

Female. Testaceous, hardly slender, white and shining beneath. Palpi brown, short, broad, porrect, white beneath; third

joint concealed by the hairs. Abdomen hardly extending beyond the hind wings, with a blackish dot on each side near the base. Legs smooth; fore tibiæ with a brown band. Wings moderately broad; interior and exterior lines brownish, indistinct, undulating. Fore wings hardly acute; exterior line very much bent; orbicular and reniform marks blackish, small. Hind wings rather paler than the fore wings. Length of the body 5 lines; of the wings 14 lines.

a. Ceylon. Presented by R. Templeton, Esq.

184. Botys Monesusalis.

Fœm. *Cinerea, sat robusta; palpi fusci, porrecti, breves, lati, obtusi; abdomen alas posticas superans; alæ iridescentes, semihyalinæ, lineis fuscis diffusis testaceo interlineatis; anticæ non acutæ, lineis quinque deviis, reniformi magna nigricante-testaceo notata; posticæ lineis duabus exterioribus bene determinatis, linea media subobsoleta.*

Female. Cinereous, moderately stout, whitish beneath. Palpi brown, porrect, short, broad, obtuse. Abdomen extending rather beyond the hind wings. Legs smooth. Wings iridescent, semihyaline; lines brown, diffuse, interlined with testaceous. Fore wings not acute, with five irregular lines; reniform mark large, blackish, marked with two more regular exterior lines, and with an almost obsolete middle line. Length of the body 6 lines; of the wings 11 lines.

a. Punjaub. Presented by General Hearsay.
b. North Hindostan. From Mr. James' collection.

185. Botys illisalis.

Mas et fœm. *Sordide albida, robusta; caput et thorax plus minusve fusca aut ochracea; palpi fusci, porrecti, breves; palpi maxillares longiusculi; pedes antici fusco varii; alæ sat amplæ, fusco varii; lineis interiore et exteriore deviis; anticæ subfalcatæ, basi fuscæ aut ochraceæ, extus subtestaceæ, maculis tribus discalibus vitreis; posticæ semihyalinæ.* Mas.—*Palporum articulus 3us brevissimus; antennæ robustæ, ciliato-serratæ; abdomen alas posticas superans.* Fœm.—*Palporum articulus 3us elongatus.*

Male and female. Dingy whitish, stout. Head and thorax more or less brown or ochraceous. Palpi porrect, brown, short, moderately broad. Maxillary palpi very distinct, rather long. Legs smooth, moderately stout; fore legs varied with brown. Wings rather ample, irregularly marked with brown; interior and exterior lines also irregular. Fore wings subfalcate, mostly brown or ochraceous towards the base, with an exterior testaceous tinge; three discal vitreous spots. Hind wings mostly semihyaline. *Male.*—Third joint of the palpi very short. Antennæ stout, serrate-ciliate. Abdomen extending somewhat beyond the hind wings. *Female.*—Third joint of the palpi elongate. Length of the body 5—7 lines; of the wings 11—16 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b. Ceylon. From Mr. Stevens' collection.
c, *d*. North Hindostan. From Mr. James' collection.

186. Botys celsalis.

Fœm. *Alba, sat valida; caput et thorax anticus cervina; palpi porrecti, breves, lati, obtusi; abdomen ochraceo notatum; pedes antici cervini; alæ iridescentes, semihyalinæ, linea submarginali cinerea undulata denticulata, punctis marginalibus nigris; anticæ acutæ, vitta costali cervina, maculis tribus subcostalibus maculaque posteriore cervinis fusco marginatis; posticæ macula discali guttaque interiore fuscis.* Mas.—*Abdominis fasciculus apicalis utrinque subtusque niger.*

Female. White, rather stout. Head and fore part of the thorax fawn-colour. Palpi fawn-colour, porrect, short, broad, obtuse, white beneath towards the base. Abdomen slightly marked with ochraceous. Legs smooth; fore legs mostly fawn-colour. Wings iridescent, semihyaline, with a cinereous undulating denticulated submarginal line; marginal points black. Fore wings acute, with a costal fawn-coloured stripe, which joins three subcostal fawn-coloured brown-bordered spots; a fourth spot hindward in the disk. Hind wings with one discal spot, and with an interior pale brown dot. *Male.*—Antennæ moderately stout. Abdomen extending somewhat beyond the hind wings; apical tuft black on each side and beneath. *Female.*—Abdomen extending very little beyond the hind wings. Length of the body 4½—5 lines; of the wings 10—12 lines. This species has some affinity to the genus *Margaronia*.

Borneo.

a. Ceylon. From Mr. Stevens' collection.

187. Botys histricalis.

Mas. *Pallide ochracea, gracilis; oculi albo cincti; palpi fusci porrecti, breves, lati, subrostriformes, subtus albi; antennæ late setulosæ; thoracis latera antica fusca; abdomen alas posticas superans, segmentis albido marginatis; pedes antici fusci; alæ angustæ, lineis fuscis interruptis, fimbria flavescente-alba; anticæ valde acutæ, basi et apud costam fuscæ, maculis quatuor fuscis, quatuor vitreis.* Fœm.?—*Pallida; alæ anticæ maculis tribus vitreis.*

Male. Pale ochraceous, slender, white beneath. Head white about the eyes. Palpi brown, porrect, short, broad, slightly rostriform, white beneath. Antennæ broadly setulose. Thorax brown on each side in front. Abdomen extending somewhat beyond the hind wings; hind borders of the segments whitish. Legs smooth; fore legs mostly brown. Wings narrow; interior and exterior lines brown, irregular, interrupted; fringe yellowish white. Fore wings very acute, brown at the base and along part of the costa, with four vitreous brown-bordered spots of various size. Length of the body 5 lines; of the wings 12 lines.

a. Ceylon. Presented by R. Templeton, Esq.

Female.? Much paler. Fore wings with only three vitreous spots. Length of the body 4 lines; of the wings 8—9 lines.

b. Shanghai. From Mr. Fortune's collection.
c. China. Presented by G. T. Laye, Esq.

188. Botys unitalis.

Cinerea, robusta, subtus albida; palpi breves, ascendentes; abdomen alas posticas non superans; pedes glabri, genubus anticis fuscis, tibiis anticis fusco fasciatis; alæ amplæ; lineis interiore et exteriore obscurioribus vix conspicuis; anticæ non acutæ, linea exteriore flexa, orbiculari et reniformi vix conspicuis.

Botys unitalis, *Guen. Delt. et Pyral.*, 349, 411.

a. Silhet. From Mr. Stainforth's collection.

189. Botys zealis.

Mas. B. lupulinali *simillima, major, minus pallida; alæ posticæ litura magna cinerea inter lineam mediam et areolam.*

Botys zealis, *Guen. Delt. et Pyral.* 332, 367.
Botys lupulinalis, var. ?
Silhet.

190. Botys incoloralis.

Mas. *Sulphureo-alba; caput supra cervinum; abdominis segmentum apicale tumidum, ovatum, villosum; alæ anticæ costa ex parte cervina, lineis interiore et exteriore cinereis submacularibus non bene determinatis, orbiculari et reniformi approximatis; posticæ linea una.*

Botys incoloralis, *Guen. Delt. et Pyral.* 332, 369.
Silhet.

191. Botys Damoalis.

Fœm. *Pallide testacea, sat gracilis; oculi albo cincti; palpi cervini, porrecti, rostriformes, capite non breviores, subtus albi; antennæ gracillimæ; thoracis latera antica cervina; abdomen alas posticas paullo superans; alæ lineis interiore et exteriore fuscescentibus denticulatis indistinctis, linea submarginali valde denticulata; anticæ vix acutæ, costa basi cervina, linea exteriore valde flexa, linea submarginali pallide cervina, orbiculari et reniformi indistinctis.*

Female. Allied to *B. lupulinalis.* Pale testaceous, moderately slender, white beneath. Head white about the eyes. Palpi fawn-colour, porrect, rostriform, as long as the head, white beneath; third joint concealed by the hairs. Antennæ very slender. Thorax fawn-colour on each side in front. Abdomen extending a little beyond the hind wings. Legs smooth. Wings moderately broad; interior and exterior lines brownish, denticulated, indistinct; submarginal line much denticulated. Fore wings hardly acute; costa fawn-colour towards the base; exterior line much bent; submarginal line pale fawn-colour; orbicular and reniform marks indistinct. Hind wings with the lines more diffuse than in the fore wings. Length of the body 5 lines; of the wings 12 lines.

a—c. China. Presented by G. T. Laye, Esq.
d. Shanghai. From Mr. Fortune's collection.

192. Botys Celatalis.

Fœm. *Pallide lutea, sat valida ; oculi albo cincti ; palpi cervini, porrecti, lati, rostriformes, subtus albi ; thoracis latera antica ochracea, abdomen alas posticas non superans ; pedes sat validi, tibiis anticis cervino fasciatis ; alæ latiusculæ, lineis interiore et exteriore ochraceis undulatis, fimbria longa plena ; anticæ subacutæ, linea exteriore valde flexa, costa et reniformi lunulata ochraceis.*

Female. Pale luteous, moderately stout, white and shining beneath. Head white about the eyes. Palpi fawn-colour, porrect, broad, rostriform, white beneath. Thorax ochraceous on each side in front. Abdomen not extending beyond the hind wings. Legs smooth, rather stout; fore tibiæ with a fawn-coloured band. Wings rather broad; interior and exterior lines ochraceous, undulating; fringe long and full. Fore wings slightly acute; exterior line much bent; costa and reniform mark ochraceous, the latter lunulate. Length of the body 5 lines; of the wings 12 lines.

a. Ceylon. Presented by R. Templeton, Esq.

193. Botys Scapulalis.

Mas. *Pallide cervina, gracilis ; palpi obscuriores, lati, rostriformes, subtus albi, articulo 3o parvo conico acuto ; antennæ sat robustæ, subpubescentes ; abdomen alas posticas longe superans, segmentis flavescente marginatis ; pedes antici pallide fusci ; tibiæ intermediæ subdilatatæ ; alæ subiridescentes, fimbria cinerea ; anticæ acutæ, lineis interiore et exteriore obscurioribus, linea exteriore valde flexa, reniformi lunulata ; posticæ fascia exteriore lata flava.*

Male. Pale fawn-colour, slender, whitish beneath. Palpi deeper fawn-colour, broad, rostriform, white beneath; third joint minute, conical, acute. Antennæ rather stout, very minutely pubescent. Abdomen extending very far beyond the hind wings; hind borders of the segments pale yellow. Legs white, smooth; middle tibiæ slightly dilated; fore legs partly pale brown. Wings slightly iridescent; fringe cinereous. Fore wings acute, partly yellow; interior and exterior lines deeper fawn-colour, the latter much bent; orbicular and reniform distinct, the latter lunulate. Hind wings with a broad exterior yellow band. Length of the body 7 lines; of the wings 12 lines.

a, b. China. Presented by G. T. Laye, Esq.

Var. β. Mas. *Fuscescente-cinerea, gracilis; palpi porrecti, lati, subtus albi; abdominis segmenta albo marginata; tibiæ intermediæ valde incrassatæ; alæ apud discum flavescentes, linea exteriore fusca; anticæ acutæ, lineis interiore et exteriore denticulatis, orbiculari et reniformi fuscis angustis; posticæ linea exteriore valde diffusa.*

Male. Brownish cinereous. Abdomen with the hind borders of the segments white. Wings mostly yellowish in the disk; exterior line brown, denticulated and oblique in the fore wings, very diffuse in the hind wings. Fore wings acute, with the denticulated interior line and the narrow orbicular and reniformmarks brown.

c. Shanghai. From the Entomologieal Society's collection.

194. Botys? Anaxisalis.

Mas. *Pallide flava, vix gracilis; palpi fusci, porrecti, graciles, articulo 3o conico; antennæ non pubescentes; abdomen album, alas posticas perpaullo superans, apice tumidulum; pedes supra fuscescente-cinerei; alæ iridescentes, latiusculæ; anticæ acutæ, linea exteriore fusca subarcuata postice obsoleta, costa subtus fusca; posticæ albæ, macula apicali fusca.*

Male. Pale yellow, hardly slender, white beneath. Palpi brown, porrect, slender, rather short, white beneath; third joint conical, concealed by the hairs. Antennæ not pubescent. Abdomen white, extending very little beyond the hind wings, somewhat tumid at the tip. Legs smooth, mostly brownish cinereous above. Wings iridescent, rather broad. Fore wings acute; exterior line brown, slightly curved, obsolete hindward, most distinct beneath, as is also the slight reniform mark; under side brown along the costa. Hind wings white, with a brown apical spot. Length of the body 6 lines; of the wings 14 lines.

a. Shanghai. From Mr. Fortune's collection.

195. Botys illectalis.

Fœm. *Rufescente-cervina, breviuscula; palpi porrecti, breves, angulati, articulo 3o lanceolato declivi; abdomen alas posticas non superans; pedes antici femoribus tibiisque supra fuscis, tarsis fusco fasciatis; alæ linea exteriore tenui nigricante valde flexa, linea submarginali minus distincta, fimbria nivea basi fusca; anticæ linea interiore nigricante.*

Female. Reddish fawn-colour, rather stout, white beneath. Palpi porrect, short, moderately broad; third joint lanceolate, decumbent, forming an angle with the second. Antennæ squamous. Abdomen not extending beyond the hind wings. Legs smooth; fore femora and fore tibiæ brown above; fore tarsi with brown bands. Wings moderately broad, testaceous beneath; exterior line slender, blackish, much bent; submarginal line less distinct, slightly curved in the fore wings, nearly straight in the hind wings; fringe pure white, brown at the base. Fore wings with an interior blackish line. Length of the body 4 lines; of the wings 10 lines.

a. Ceylon. Presented by R. Templeton, Esq.

196. Botys deductalis.

Mas. *Cinerea, gracilis; palpi cervini, porrecti, breves, lati, subtus albi; antennæ graciles, subpubescentes; abdomen alas posticas superans, fasciculis parvis lateralibus; alæ latiusculæ, iridescentes, linea exteriore obscuriore indistincta subundulata; anticæ vix acutæ, orbiculari et reniformi indistinctis.*

Male. Cinereous, slender, white beneath. Palpi fawn-colour, porrect, short, broad, white beneath; third joint very minute. Antennæ slender, minutely pubescent. Abdomen extending somewhat beyond the hind wings, with small tufts along each side. Legs smooth, slender. Wings rather broad, iridescent; exterior line indistinct, slightly undulating, a little darker than the ground-colour. Fore wings hardly acute; orbicular and reniform indistinctly visible. Length of the body 6 lines; of the wings 14 lines.

a. Ceylon. From Mr. Stevens' collection.

197. Botys ultimalis.

Fœm. *Cinereo-testacea, vix gracilis; palpi cervini, breves, obtusi, vix ascendentes, subtus albi; abdomen fusciculus parvis lateralibus, alas posticas vix superans; alæ iridescentes, lineis interiore et exteriore cinereis indistinctis subundulatis, linea marginali tenui albida; anticæ vix acutæ, linea exteriore valde flexa, orbiculari et reniformi e annulis duobus indistinctis cinereis.*

Female. Cinereous-testaceous, hardly slender, paler beneath. Palpi fawn-colour, hardly ascending, short, obtuse, moderately broad, white beneath, Abdomen hardly extending beyond the hind wings, with small tufts along each side. Legs smooth. Wings moderately broad, iridescent; interior and exterior lines cinereous, indistinct, slightly undulating; a slender whitish marginal line. Fore wings hardly acute; exterior line much bent; orbicular and reniform marks forming two indistinct cinereous ringlets. Length of the body 5 lines; of the wings 14 lines.

a. Ceylon. Presented by R. Templeton, Esq.

198. Botys ablactalis.

Fœm. *Testacea, gracilis; palpi porrecti, lati, rostriformes, capite non breviores, articulo 3o conico minimo; alæ subtestaceo-cinereæ, semihyalinæ, iridescentes, lineis interiore et exteriore obscurioribus indistinctis, hac undulata, linea marginali nigra, fimbria alba; anticæ peracutæ, linea exteriore valde flexa, reniformi angusta arcuata obscure cinerea.*

Female. Testaceous, slender, white and shining beneath. Palpi porrect, broad, rostriform, as long as the head; third joint conical, very minute. Abdomen hardly extending beyond the hind wings. Legs smooth. Wings cinereous, with a slight testaceous tinge, moderately broad, semihyaline, iridescent; interior and exterior lines darker gray, indistinct, the latter undulating; marginal line black; fringe white. Fore wings very acute; exterior line much bent; reniform mark forming a slender curved dark cinereous streak. The shape of the palpi and of the fore wings will distinguish this species from *B. deductalis*, which it much resembles. Length of the body 4 lines; of the wings 10 lines.

a—f. Ceylon. From Mr. Stevens' collection.

Var. *β.* Fœm. *Pallide fuscescente-cinerea; pectus antice niveum; alæ lineis interiore et exteriore fuscis indistinctis undulatis, linea marginali obscure fusca; anticæ reniformi e lunula fusca.*

Female. Pale brownish cinereous, whitish beneath. Pectus pure white in front. Wings with the interior and exterior lines brown, indistinct, undulating; marginal line dark brown. Fore

wings with the reniform mark distinguished by a brown lunule. Length of the body 6 lines; of the wings 12 lines.

Hindostan. In Mr. Saunders' collection.

199. Botys Amphisalis.

Mas. *Alba, gracillima; palpi porrecti, breves, graciles, late fimbriati; antennæ squamosæ, sat validæ; thorax flavus, lateribus anticis ochraceis; abdomen attenuatum, alas posticas longe superans; pedes longi, graciles, tibiis intermediis incrassatis; alæ flavæ, iridescentes, semihyalinæ, lineis ochraceis rectis; anticæ acutæ, lineis quatuor, 3a postice abbreviata; alæ trilineatæ.*

Male. White, very slender. Palpi porrect, short, slender, broadly fringed; third joint concealed by the hairs. Antennæ squamous, rather stout. Thorax yellow, ochraceous on each side in front. Abdomen attenuated, extending far beyond the hind wings. Legs smooth, long, slender; middle tibiæ incrassated. Wings yellow, iridescent, semihyaline; lines ochraceous, straight. Fore wings acute, with four lines, the third much abbreviated hindward. Hind wings with three lines. Length of the body 4½ lines; of the wings 9 lines.

a. China. Presented by G. T. Laye, Esq.

200. Botys multilinealis.

Albida; palpi ascendentes, breves, lati, fusco notati; thorax ochraceo aut fusco guttatus; abdomen fasciatum; alæ iridescentes, lineis deviis fuscis, linea marginali obscuriore bene determinata; anticæ orbiculari et reniformi e annulis magnis; posticæ annulo discali.

Botys multilinealis, *Guen. Delt. et Pyral.* 337, 380.

a. Ceylon. Presented by R. Templeton, Esq.
b, c. Ceylon. From Mr. Stevens' collection.
d. Hindostan. From Archdeacon Clerk's collection.
e, f. China. Presented by G. T. Laye, Esq.

Var. *β. Male.* Whitish, slender, white and shining beneath. Palpi fawn-colour, ascending, not broad, white beneath; third joint

lanceolate, about half the length of the second. Antennæ not pubescent. Abdomen extending very far beyond the hind wings; apical tuft long, testaceous. Legs smooth; fore legs with brown bands. Wings, iridescent, semihyaline; interior, exterior and submarginal lines brown, denticulated.

g—k. Shanghai. From Mr. Fortune's collection.

201. Botys Amyntusalis.

Mas. *Testaceo-alba, gracilis; palpi albi, arcuati, ascendentes, albi, sat graciles, apice fusci, articulo 3o conico parvo; palpi maxillares breves; antennæ squamosæ, sat validæ; abdomen luteo varium, alas posticas longe superans; fasciculus apicalis ex parte fuscus; tibiæ anticæ fusco fasciatæ; alæ iridescentes, semihyalinæ, lineis interiore et exteriore, linea marginali fasciculoque apicali fuscis, fimbria alba fusco interlineata; anticæ acutæ, costa guttis tribus basalibus fuscis, linea exteriore valde flexa, reniformi fusca magna subquadrata pallido interlineata.*

Male. Testaceous-white, slender, shining white beneath. Palpi white, curved, ascending higher than the vertex, rather slender, brown towards the tips; third joint conical, less than one-fourth of the length of the second. Maxillary palpi short. Antennæ squamous, rather stout. Thorax brown on each side in front. Abdomen partly luteous, extending far beyond the hind wings; apical tuft partly brown. Legs smooth; fore tibiæ with a brown band. Wings iridescent, semihyaline; interior and exterior lines brown, irregular; marginal line and apical patch brown; fringe white, interlined with brown. Fore wings acute; costa with three brown dots towards the base; exterior line extremely bent, touching the reniform mark, which is large, brown, subquadrate and interlined with the ground-colour. Hind wings with the interior line forked in front. Length of the body 4½ lines; of the wings 9 lines.

a. Ceylon. Presented by R. Templeton, Esq.

202. Botys lunalis.

Mas et fœm. *Nigricante-fusca; palpi bicolores; antennæ vix pubescentes; pedes albi, tibiis apice genubusque anticis fuscis; alæ violaceo subnitentes; anticæ lineis duabus obscurioribus*

vix denticulatis, interiore subrecta, exteriore valde flexa, orbiculari punctiformi et reniformi lunulata albis ; posticæ lineis duabus rectis obliquis, 2a abbreviata.

Botys lunalis, *Guen. Delt. et Pyral.* 352, 417.

Coromandel.

203. Botys Megesalis.

Mas. *Cinereo-cervina, gracilis ; palpi fusci, ascendentes, breves, non lati ; antennæ graciles, squamosæ ; abdomen alas posticas fere dimidio superans ; alæ elongatæ, linea exteriore fusca recta obliqua ; anticæ non acutæ, reniformi parva fusca ; posticæ apud costam albidæ.*

Male. Cinereous fawn-colour, slender. Palpi brown, ascending, short, not broad; third joint very minute. Antennæ slender, squamous. Abdomen long, extending for nearly half its length beyond the hind wings. Legs smooth. Wings elongate, moderately broad; exterior line brown, straight, oblique. Fore wings not acute; reniform mark small, brown. Hind wings whitish along the costa. Length of the body 8 lines; of the wings 16 lines.

a. North China. From Mr. Fortune's collection.

204. Botys abstrusalis.

Mas et fœm. *Fusca, vix robusta ; palpi porrecti, breves, lati, obtusi ; abdomen cinereo-fuscum, segmentis albido marginatis ; pedes antici nigricante vittati ; alæ subpurpurascentes, lineis interiore et exteriore nigricantibus diffusis denticulatis pallido submarginatis, linea marginali pallida ; anticæ acutæ, linea exteriore valde flexa, orbiculari et reniformi nigricantibus, hac lunulata.*

Male and female. Brown, hardly stout, whitish beneath. Palpi porrect, short, broad, obtuse. Abdomen cinereous-brown; hind borders of the segments whitish. Legs smooth; fore legs with blackish stripes. Wings with a purplish tinge; interior and exterior lines blackish, diffuse, denticulated, slightly pale-bordered; marginal line pale; fringe cinereous. Fore wings acute; exterior line much bent; orbicular and reniform marks blackish, the latter lunulate. *Male.* — Antennæ minutely pubescent. Abdomen extending somewhat beyond the hind wings. Middle femora fringed

with chalybeous hairs. Length of the body 4—5 lines; of the wings 9—10 lines.

a—g. Ceylon. From Mr. Stevens' collection.
h—k. China. Presented by G. T. Laye, Esq.
l, m. Shanghai. From Mr. Fortune's collection.

205. Botys adhæsalis.

Fœm. *Ferrugineo-fusca, sat valida; palpi subascendentes, breves, lati; antennæ gracillimæ, longiusculæ; pectus antice niveum; abdomen alas posticas sat superans; alæ angustæ, lineis interiore et exteriore obscure fuscis, hac perobliqua, fimbria cinerea basi pallida, reniformi lunulata obscure fusca.*

Female. Ferruginous-brown, moderately stout. Palpi slightly ascending, short, broad, white beneath; third joint minute, conical. Antennæ very slender, rather long. Abdomen extending somewhat beyond the hind wings. Pectus shining white in front. Legs smooth. Wings rather narrow; interior and exterior lines dark brown, the latter very oblique; fringe cinereous, with a pale basal line. Fore wings very acute; reniform mark lunulate, dark brown. Length of the body 4 lines; of the wings 9 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b, c. Shanghai. From Mr. Fortune's collection.

206. Botys Atopalis.

Mas. *Fuscescente-cinerea, gracillima; palpi obscure fusci, ascendentes, breves, obtusi, vix lati, subtus albi; palpi maxillares distincti; antennæ non pubescentes; abdomen alas posticas longe superans; pedes longi, graciles; alæ angustæ, iridescentes, semihyalinæ, linea exteriore fusca obliqua subrecta, fimbria albida basi obscure fusca; anticæ valde acutæ, reniformi obliqua obscure fusca.*

Male. Brownish cinereous, very slender, whitish beneath. Palpi dark brown, ascending, short, obtuse, hardly broad, white beneath. Maxillary palpi distinct. Antennæ not pubescent. Abdomen extending far beyond the hind wings. Legs smooth, long, slender. Wings narrow, iridescent, semihyaline; exterior line brown, oblique, nearly straight; fringe whitish, dark brown at the

base. Fore wings very acute; reniform mark dark brown, oblique. Length of the body 5 lines; of the wings 10 lines.

a. Shanghai. From Mr. Fortune's collection.

207. BOTYS ADMIXTALIS.

Mas et fœm. *Cinerea, gracillima; palpi fusci, ascendentes, obtusi, subtus albi; antennæ squamosæ, graciles, longiusculæ; thoracis latera antica fusca; abdomen alas posticas plus dimidio superans; pedes longi, gracillimi; alæ perangustæ, iridescentes, linea exteriore fusca subundulata, linea marginali obscure fusca, fimbria albida basi obscure fusca; anticæ peracutæ, costa orbiculari et reniformi fuscis.*

Male and female. Cinereous, very slender, shining white beneath. Palpi brown, obliquely ascending, obtuse, moderately broad, white beneath. Antennæ squamous, slender, rather long. Thorax brown on each side in front. Abdomen much attenuated, extending in the male for more than half its length beyond the hind wings. Legs smooth, long, very slender. Wings iridescent, very narrow; exterior line brown, very slightly curved; marginal line dark brown; fringe whitish, dark brown at the base. Fore wings very acute; costa and the small discal marks brown; exterior border very oblique. Length of the body 4½—5 lines; of the wings 10 lines.

a, *b*. Ceylon. Presented by R. Templeton, Esq.
c. Ceylon. From Mr. Stevens' collection.

208. BOTYS RUTILALIS.

Mas et fœm. *Pallide lutea, gracilis; palpi fusci, porrecti, breves, lati, subrostriformes, subtus albi, thoracis latera antica fusca; abdomen maris alas posticas superans; alæ lineis interiore et exteriore fuscis obliquis rectis, fascia marginali lata fuscescente-cinerea, linea marginali e punctis nigris, fimbria albida basi fusca; anticæ acutæ, costa et reniformi parva lunulata fuscis; posticæ linea interiore subobsoleta.*

Male and female. Pale luteous, slender, shining white beneath. Palpi brown, porrect, short, broad, slightly rostriform, white beneath. Thorax brown on each side in front. Abdomen of the male extending somewhat beyond the hind wings. Legs

smooth. Wings moderately broad; interior and exterior lines brown, oblique, straight, the former obsolete in the hind wings, except by the costa; a broad marginal brownish cinereous band; marginal line black, more or less composed of points; fringe whitish, brown at the base. Fore wings acute; costa and the small lunulate reniform mark brown. Length of the body 3—4 lines; of the wings 7—8 lines.

a—f. Ceylon. From Mr. Stevens' collection.
g. North Hindostan. From Mr. James' collection.
h—l. China. Presented by G. T. Laye, Esq.
m. Hong Kong. Presented by Major Champion.

209. Botys Iolealis.

Mas. *Pallide flava, gracilis; caput et thoracis latera antica fusca; palpi fusci, porrecti, breves, lati, subtus albi; antennæ squamosæ; abdomen alas posticas longe superans; pedes antici fusci, tibiis fasciculatis; alæ lineis interiore et exteriore nigricantibus obliquis subrectis, spatio marginali cinereo, linea marginali nigricante, fimbria albida; anticæ acutæ, costa nigricante-cinerea, plica costali fasciculata, reniformi parva*

Male. Pale yellow, slender, white and shining beneath. Head and fore sides of the thorax brown. Palpi brown, porrect, short, broad, white beneath; third joint small, concealed by the hairs. Antennæ squamous, not pubescent. Abdomen extending far beyond the hind wings. Legs smooth; fore femora and fore tibiæ brown above, the latter tufted. Wings moderately broad; interior and exterior lines blackish, oblique, nearly straight; marginal space cinereous, marginal line blackish, double; fringe whitish. Fore wings acute; costa blackish cinereous, with a folded tuft, which is contiguous to the small reniform mark. Length of the body 2¼—3 lines; of the wings 6—7 lines.

a. Hong Kong. Presented by Major Champion.
b. Sarawak, Borneo. From Mr. Wallace's collection.

210. Botys ruralis.

Mas. *Pallide flava, gracilis; caput et thoracis latera antica fusca; palpi fusci, porrecti, breves, lati, subtus albi; antennæ squamosæ; abdomen alas posticas longe superans; pedes antici fusci, tibiis fasciculatis; alæ apud marginem exteriorem*

cinereæ, lineis interiore et exteriore nigricantibus subobliquis; anticæ vix acutæ, apud costam diffuse purpurascente-cinereæ, linea exteriore biangulata, reniformi parva.

Male. Pale yellow, slender, white and shining beneath. Head and fore sides of the thorax brown. Palpi brown, porrect, short, broad, white beneath; third joint very small. Antennæ squamous, not pubescent. Abdomen extending far beyond the hind wings. Legs smooth; fore femora and fore tibiæ brown above, the latter tufted. Wings moderately broad, cinereous along the exterior border; interior and exterior lines blackish, slender, slightly oblique. Fore wings hardly acute, diffusedly purplish cinereous along the costa, and thus nearly hiding the small reniform mark; exterior line bent, and forming two right angles. Length of the body 3½ lines; of the wings 6 lines.

a, b. Ceylon. From Mr. Stevens' collection.

211. Botys Thyalis.

Fœm. *Ochraceo-cinerea, vix robusta; palpi porrecti, graciles, breves, non obtusi; antennæ squamosæ; pectus antice niveum; abdomen cinereum, alas posticas non superans; alæ purpurascentes, fusco conspersæ, breviusculæ; anticæ acutæ, lineis interiore et exteriore nigricantibus, hac valde flexa, orbiculari et reniformi nigricantibus, hac perangusta, illa punctiformi; anticæ cinereæ, linea exteriore nigricante.*

Female. Ochraceous-cinereous, hardly stout, whitish beneath. Palpi porrect, slender, short, not obtuse; third joint concealed by the hairs. Antennæ squamous. Pectus pure white in front. Abdomen cinereous, not extending beyond the hind wings. Legs smooth. Wings with a purplish tinge, minutely speckled with brown, rather short. Fore wings acute; interior and exterior lines blackish, the latter very much bent; orbicular and reniform marks blackish, the former punctiform, the latter very narrow. Hind wings with no ochraceous tinge; a blackish exterior line. Length of the body 3 lines; of the wings 6 lines.

a. China. Presented by G. T. Laye, Esq.

212. Botys suspicalis.

Fœm. *Testacea, sat gracilis, caput et thorax anticus fusca; oculi albo marginati; palpi porrecti, lati, obtusi; abdomen segmentis*

albo marginatis, guttis duabus subapicalibus punctisque ventralibus lateralibus nigris ; alæ testaceo-cinereæ, iridescentes, semihyalinæ, lineis tribus nigricantibus, linea marginali nigra ; anticæ acutæ, costa lineaque basali fuscis, linea interiore subangulata, linea exteriore flexa, linea submarginali undulata latiore ; posticæ linea submarginali undulata.

Femule. Testaceous, rather slender, white beneath. Head and fore part of the thorax brown; eyes white-bordered. Palpi brown, porrect, broad, obtuse, moderately long, white beneath. Abdomen extending a little beyond the hind wings ; hind borders of the segments white; a black subapical dot on each side; under side with black points along each side. Wings testaceous cinereous, iridescent, semihyaline, with three blackish lines; marginal line black; fringe blackish, pale at the base. Fore wings acute, diffusedly brown along the costa, with a brown rather diffuse basal line ; interior line slightly angular; exterior line bent; submarginal line undulating, broader than the others; reniform mark lunulate. Hind wings with the lines straight; submarginal line abbreviated hindward. Length of the body 3 lines; of the wings 7 lines.

a. Ceylon. From Mr. Stevens' collection.

213. Botys Damasalis.

Mas. *Fuscescente-cinerea, gracillima ; palpi porrecti, breves, lati, obtusi ; antennæ longæ, squamosæ ; abdomen alas posticas plus dimidio superans ; pedes longi, gracillimi ; alæ perangustæ, linea exteriore fusca obliqua subrecta, fimbria extus albida ; anticæ valde acutæ, costæ dimidio basali fusco, orbiculari et reniformi fuscis parvis, margine exteriore perobliquo.*

Male. Brownish cinereous, extremely slender, white beneath. Palpi porrect, short, broad, obtuse, white beneath. Antennæ long, squamous, not pubescent. Abdomen extremely attenuated, extending for much more than half its length beyond the hind wings. Legs long, smooth, very slender. Wings very narrow ; exterior line brown, oblique, nearly straight ; fringe whitish exteriorly. Fore wings very acute; costa brown for half the length from the base ; orbicular and reniform marks brown, small ; exterior border very oblique. Length of the body 5 lines ; of the wings 8 lines.

a. China. Presented by G. T. Laye, Esq.
b, c. Shanghai. From Mr. Fortune's collection.

214. Botys stultalis.

Mas. *Testaceo-cinerea, gracilis; caput et thorax anticus cervina; palpi fusci, porrecti, breves, lati, obtusi, subtus albi; abdomen alas posticas longe superans, apice compressum; alæ angustæ, iridescentes, lineis interiore et exteriore nigricantibus denticulatis; anticæ acutæ, linea exteriore valde flexa, orbiculari punctiformi et reniformi lunulata nigricantibus, margine exteriore perobliquo.*

Male and female. Cinereous, slender, with a testaceous tinge, white beneath. Head and fore part of the thorax fawn-colour. Palpi brown, porrect, short, broad, obtuse, white beneath. Antennæ squamous. Abdomen extending rather far beyond the hind wings, compressed at the tip. Legs smooth. Wings narrow, iridescent; interior and exterior lines blackish, denticulated. Fore wings acute; exterior line much bent; punctiform orbicular mark and lunulate reniform blackish; exterior border very oblique. Length of the body 5 lines; of the wings 10 lines.

a. Ceylon. Presented by R. Templeton, Esq.
b, *c*. Ceylon. From Mr. Stevens' collection.
d. China. Presented by G. T. Laye, Esq.

215. Botys adductalis.

Fuscescente-purpurea, sat gracilis; oculi albo cincti; palpi ascendentes, graciles, subarcuati, subtus albi, articulo 3o minimo; antennæ squamosæ; tibiæ anticæ fusco fasciatæ; alæ opacæ, lineis interiore et exteriore fuscescentibus indistinctis cinereo fasciatis; anticæ vix acutæ, maculis duabus subcostalibus albis, linea exteriore valde flexa.

Brownish purple, rather slender, white and shining beneath. Head white about the eyes. Palpi obliquely ascending, slender, slightly curved, white beneath; third joint very minute, not more than one-sixth of the length of the second. Antennæ squamous. Legs smooth. Fore tibiæ with a brown band. Wings opaque; interior and exterior lines brownish, indistinct, cinereous-bordered. Fore wings hardly acute, with two transverse white spots in front, the interior one corresponding to the reniform mark, the outer one accompanying the exterior line, which is much bent. Length of the body 4? lines; of the wings 9 lines.

a. Ceylon. Presented by R. Templeton, Esq.

216. Botys tropicalis.

Fœm. *Pallide cervina, sat valida; palpi fusci, porrecti, non lati; articulus 3us lanceolatus, 2i dimidio longior; alæ lineis interiore et exteriore fuscis pallido marginatis albo notatis, illa valde undulata; anticæ vix acutæ, reniformi lata albo sublunulata nigricante marginata; posticæ linea interiore brevissima.*

Female. Pale fawn-colour, moderately stout, white and shining beneath. Palpi brown, porrect, not broad, a little longer than the head, white beneath towards the base; third joint lanceolate, more than half the length of the second. Wings moderately broad; interior and exterior lines brown, pale-bordered, irregularly marked with white, the latter very undulating. Fore wings hardly acute; reniform mark, broad, white, blackish-bordered, slightly lunulate. Hind wings with the interior line only apparent by the costa. Length of the body 4 lines; of the wings 10 lines.

a. Ceylon. Presented by R. Templeton, Esq.

217. Botys adjungalis.

Mas. *Flava, gracilis; caput et thorax fuscescente-purpurea; palpi subascendentes, breves, lati, obtusi; abdomen apice nigrum, fascia strigisque tribus albis; alæ angustæ, iridescentes, lineis interiore et exteriore nigricantibus obliquis incompletis; anticæ fuscescente-purpureo late marginatæ, costa guttisque nonnullis flavis.*

Male. Yellow, slender, whitish beneath. Head, thorax and palpi brownish purple, the latter slightly ascending, short, broad, obtuse, whitish beneath towards the base. Antennæ squamous. Abdomen extending far beyond the hind wings, towards the tip partly black with a white band and three white streaks. Legs smooth. Wings rather narrow, iridescent; interior and exterior lines blackish, oblique, incomplete. Fore wings broadly but irregularly brownish purple along the costa and along the exterior border, and therein including some yellow dots; costa mostly pale yellow. Length of the body 5—6 lines; of the wings 10—12 lines.

a, *b*. Ceylon. Presented by R. Templeton, Esq.

218. Botys Œmealis.

Fœm. *Fusca, gracilis ; palpi ascendentes, non lati, subtus nivei, articulo 3o conico minimo ; antennæ squamosæ ; tibiæ anticæ fusco fasciatæ ; alæ fuscescente-purpureæ, fimbria postice alba ; alæ anticæ subrotundatæ, linea exteriore fusca valde flexa, maculis duabus anticis lineolaque postica albis ; posticæ fascia informi interrupta alba.*

Female. Brown, slender, whitish beneath. Palpi ascending obliquely higher than the vertex, not broad, pure white beneath except towards the tips; third joint conical, not one-sixth of the length of the second. Antennæ squamous. Legs smooth; anterior knees brown; fore tibiæ with a brown band, slightly tufted. Wings brownish purple, moderately broad; fringe brown, white towards the tips hindward. Fore wings somewhat rounded at the tips; exterior line brown, much bent, accompanied hindward by a little white line, and emerging from an elongate white spot, which parts from the costa; a white quadrate spot on the inner side of the indistinct reniform mark. Hind wings with an irregular white band, which is slightly interrupted in the middle. Length of the body 6 lines; of the wings 14 lines.

Hindostan. In Mr. Saunders' collection.

219. Botys? Vulsalis.

Fœm. *Rufa, robusta ; fasciculus frontalis elongatus ; palpi porrecti, longiusculi, non lati, articulo 3o parvo lineari gracili ; thorax squamosus ; abdomen alas posticas non superans ; pedes validi, cinereo-rufi, subpilosi, tibiis intermediis niveis ; alæ linea exteriore obscuriore subdenticulata extus pallido marginata, fimbria basi fuscescente ; anticæ linea interiore, costa media nigra albo quinque punctata ; posticæ luteæ, antice flavescentes.*

Female Red, stout, short, paler beneath. Frontal tuft prominent. Palpi porrect, rather long, not broad; third joint slender, linear, about one-fourth of the length of the second. Antennæ squamous. Thorax squamous. Abdomen not extending beyond the hind wings. Legs stout, cinereous-red, somewhat pilose; middle tarsi snow-white. Wings moderately broad; exterior line darker, slightly denticulated, pale-bordered exteriorly; fringe brownish at

the base. Fore wings with an interior line; costa black, and with five white points between the lines. Hind wings luteous, pale yellowish in front; fringe red. Length of the body 3 lines; of the wings 8 lines.

a. Ceylon. Presented by R. Templeton, Esq.

220. Botys Dryopealis.

Fœm. *Luteo-flava; thoracis latera ferruginea; alæ anticæ acutæ, costa et margine exteriore ferrugineis, lineis interiore et exteriore undulatis denticulatis, ferrugineis, orbiculari et reniformi ferrugineis, hac maculaque exteriore pallidiore diffusa connexis; posticæ pallide flavæ, linea exteriore margineque pallide fuscis.*

Female. Luteous-yellow. Abdomen and under side paler. Sides of the thorax ferruginous. Fore wings acute; costa ferruginous; exterior border more broadly ferruginous; interior and exterior lines undulating, denticulated, ferruginous; orbicular and reniform marks ferruginous; the former small, the latter narrow, joining an exterior diffuse paler spot. Hind wings pale yellow; exterior line and border pale brown, the former indistinct. Length of the body 5½ lines; of the wings 11 lines.

Ceylon. In Mr. Layard's collection.

221. Botys Cynaralis.

Fœm. *Pallide flava; thorax antice flavo trimaculatus; abdomen guttis duabus basalibus nigricantibus; alæ lineis tribus e strigis fuscis; posticæ macula apud angulum interiorem cuprea.*

Female. Pale yellow. Thorax with three brown spots in front, the middle one double. Abdomen with a blackish dot on each side near the base. Wings with black submarginal points, and with three irregular lines composed of brown streaks. Hind wings with the lines more incomplete, and with a cupreous spot near the interior angle. Length of the body 5 lines; of the wings 10 lines.

Ceylon. In Mr. Layard's collection.

222. Botys Nephealis.

Mas. *Testacea; thorax ochraceo fasciatus, lateribus anticis ferrugineis; abdomen fasciis fuscescentibus; alæ iridescentes, extus ochraceæ, lineis margineque exteriore fuscis; anticæ apud costam ochraceæ, lineis subundulatis, linea submarginali postice abbreviata; posticæ lineis exteriore et submarginali incompletis.*

Male. Testaceous. Thorax ferruginous on each side in front, and with a pale ochraceous band. Abdomen with brownish bands. Wings with pearly lustre, somewhat ochraceous towards the exterior border, which is brown. Fore wings ochraceous along the costa; lines brown, slightly undulating; submarginal line abbreviated hindward and contiguous to a brown streak. Hind wings with the exterior and submarginal lines brown, incomplete. Length of the body 4 lines; of the wings 10 lines.

Ceylon. In Mr. Layard's collection.

223. Botys Myrinalis.

Fœm. *Pallide flava; abdomen flavescente-albidum; alæ anticæ acutæ, lineis interiore exteriore et submarginali pallide fuscis indistinctis subundulatis, spatio marginali subfuscescente, orbiculari et reniformi pallide fuscis, hac e annulo informi, illa punctiformi; posticæ lineis pallidioribus ex parte obsoletis.*

Female. Pale yellow. Abdomen, hind wings and under side more whitish. Fore wings acute; interior, exterior and submarginal lines pale brown, slightly undulating, not distinct; a slight brownish tinge between the submarginal line and the border; orbicular and reniform marks pale brown, the former punctiform, the latter forming an irregular ringlet. Hind wings with the lines paler and more indistinct than in the fore wings, and partly obsolete. Length of the body 4½ lines; of the wings 10 lines.

Ceylon. In Mr. Layard's collection.]

224. Botys plagiatalis.

Fœm. *Pallide luteo-flava; alæ anticæ apice subrotundatæ, plagis quatuor fuscis, 1a basali, 2a 3aque exterioribus, 4a subapicali, linea submarginali obscure fusca, punctis marginalibus fuscis; posticæ semihyalinæ, plaga subapicali fusca.*

Female. Pale luteous-yellow, shining, paler beneath. Fore wings slightly rounded at the tips, very oblique along the exterior border; four brown patches; one near the base; the second by the interior angle; the third opposite the second, near the costa; the fourth subapical, elongate, larger than the others, accompanied along its inner side by the darker submarginal line, which is obsolete hindward; marginal points brown. Hind wings semihyaline, with a brown subapical patch. Length of the body 4 lines; of the wings 10 lines.

Ceylon. In Mr. Layard's collection.

225. Botys brevilinealis.

Mas. *Testacea; alæ lineis exteriore et submarginali fuscis subundulatis, illa antice obscuriore; anticæ linea interiore fusca distincta, gutta discali obscure fusca, punctis marginalibus fuscis; posticæ linea marginali interrupta obscure fusca.*

Male. Testaceous, paler beneath. Wings with the exterior and submarginal lines brown, slightly undulating; exterior line darker in front. Fore wings with a distinct interior brown line, and with a dark brown dot towards the costa between the interior and exterior lines; marginal points brown. Hind wings with a dark brown interrupted marginal line. Length of the body 3½ lines; of the wings 9 lines.

Ceylon. In Mr. Layard's collection.

226. Botys Thaisalis.

Pallide flavescens; alæ lineis fuscescentibus undulatis guttularibus incompletis, fascia marginali intus undulata, annulo discali fuscescente.

Pale yellowish. Wings with slight incomplete somewhat dotted brownish undulating lines; exterior border with a brown band, which is undulating on the inner side; a discal brownish ringlet largest in the fore wings, where it represents the reniform mark. Length of the body 3½ lines; of the wings 9 lines.

Ceylon. In Mr. Layard's collection.

227. Botys Dialis.

Pallide lutea; alæ lineis denticulatis fuscescentibus, linea exteriore valde flexa, linea submarginali diffusa indistincta; anticæ subarcuatæ, reniformi angusta fusca, margine exteriore sat obliquo.

Pale luteous. Wings with brownish denticulated lines; exterior line much bent in the middle; submarginal line diffuse, indistinct; marginal festoon brownish. Fore wings slightly acute; exterior border rather oblique; reniform mark brown, narrow. Length of the body 3 lines; of the wings 8 lines.

Ceylon. In Mr. Layard's collection.

228. Botys annulalis.

Pallide testacea; alæ lineis interiore et exteriore fuscis undulatis subinterruptis, spatio marginali annuloque subcostali fuscis.

Pale testaceous. Wings with the interior and exterior lines brown, slender, undulating, festoon-like, with slight interruptions; space between the exterior line and the exterior border mostly brown; a brown subcostal ringlet, larger and more diffuse and more remote from the base in the fore wings than in the hind wings. Fore wings with two or three brown points about the lines. Lenth of the body 3½ lines; of the wings 8 lines.

Ceylon. In Mr. Layard's collection.

229. Botys phycidalis.

Mas. *Cinereo-fusca; alæ purpurascente tinctæ, fascia media latiuscula flava nigro marginata, linea submarginali et punctis marginalibus nigris; anticæ plaga magna lutea subapicali.*

Male. Cinereous-brown, more cinereous beneath. Wings with a purplish tinge, except towards the base, and with a rather broad yellow black-bordered middle band; submarginal line and marginal points black. Fore wings with a large luteous costal subapical patch. Length of the body 3 lines; of the wings 8 lines.

Ceylon. In Mr. Layard's collection.

230. Botys Janapalis.

Fœm. *Cinerascente-fusca; palpi breves, robusti, compressi, articulo 3o conico brevissimo; abdomen alas posticas dimidio superans; alæ angustæ, annulo discali fusco, linea exteriore fusca obliqua informi e lituris cuneatis pallido marginatis.*

Female. Brown, moderately stout, with a slight cinereous tinge, more cinereous beneath. Proboscis short. Palpi short, stout, compressed, hardly rising as high as the vertex; third joint conical, not one-fourth of the length of the second. Antennæ rather stout. Abdomen long, extending for half its length beyond the hind wings. Legs rather stout. Wings narrow, with a brown discal ringlet, and with an exterior oblique irregular pale-bordered brown line, composed of cuneate marks. Length of the body 5 lines; of the wings 10 lines.

Ceylon. In Mr. Layard's collection.

Australasia.

A. Palpi incumbentes. - - - - spissalis, *Guen.*
B. Palpi non incumbentes.
A. Alæ anticæ subfalcatæ. - - - grossalis, *Guen.*
B. Alæ anticæ non subfalcatæ. - - - Origoalis, *Walk.*
a. Palpi porrecti.
a. Palporum articulus 3us longi-conicus.
i. Statura gracillima. - - - Anialis, *Walk.*
ii. Statura gracilis.
* Alæ pallide luteæ. - - Habisalis, *Walk.*
** Alæ albæ. - - - - Taphiusalis, *Walk.*
*** Alæ cinereæ. - - - Didasalis, *Walk.*
**** Alæ cinereo-fuscæ - Hisbonalis, *Walk.*
iii. Statura sat robusta.
* Alæ fuscescente-cinereæ. - Dolopsalis, *Walk.*
** Alæ testaceæ. - - - Coclesalis, *Walk.*
b. Palporum articulus 3us minimus.
i. Statura gracillima. - - Rhipheusalis, *Walk.*
ii. Statura gracilis.
* Alæ argenteo ornatæ. Pœasalis, *Walk.*
** Alæ argenteo non ornatæ.
† Alæ vix lineatæ. - Cydippealis, *Walk.*
†† Alæ lineatæ.

‡ Alæ posticæ apud marginem interiorem pallidiores. - - Polusalis, *Walk.*
‡‡ Alæ posticæ apud marginem interiorem non pallidiores.
§ Alæ anticæ annulis nullis.
× Alæ albæ. - Melonalis, *Walk.*
×× Alæ pallidæ.
0 Alæ late marginatæ.
Marisalis, *Walk.*
00 Alæ latissime marginatæ.
Trebiusalis, *Walk.*
××× Alæ obscuræ.
0 Alæ ochraceæ.
Bræsialis, *Walk.*
00 Alæ non ochraceæ.
→ Alæ angustæ.
Macaralis, *Walk.*
→→ Alæ non angustæ.
Halmusalis, *Walk.*
§§ Alæ anticæ annulis discalibus.
× Alæ ochraceæ. Tampiusalis, *Walk.*
×× Alæ cinereo-fuscæ.
Hodiusalis, *Walk.*
××× Alæ albido-cinereæ.
Ilusalis, *Walk.*
×××× Alæ flavescentes. Œaxalis, *Walk.*
iii. Statura vix robusta.
* Alæ fuscescente-cinereæ. - Licarsialis, *Walk.*
** Alæ ochraceæ aut luteæ.
† Alæ basi niveæ. - Phytonalis, *Walk.*
†† Alæ basi non niveæ.
‡ Alæ vix lineatæ. - Tisiasalis, *Walk.*
‡‡ Alæ lineatæ. - Mœlusalis, *Walk.*
iii. Statura sat robusta.
* Alæ basi obscuræ. - - Tapsusalis, *Walk.*
** Alæ basi non obscuræ. - - Turiusalis, *Walk.*

B. Palpi ascendentes.
a. Statura gracillima.
i. Alæ cinereæ. - - - - Trogusalis, *Walk.*
ii. Alæ luteæ. - - - - Varanesalis, *Walk.*
b. Statura gracilis.
i. Palporum articulus 3us minimus.
* Palpi non aut vix lati.
† Alæ testaceæ.

‡ Fimbria alba. - Castoralis, *Walk.*
‡‡ Fimbria non alba. - Deciusalis, *Walk.*
†† Alæ non testaceæ.
‡ Alæ anticæ acutæ.
§ Pedes sat validi. - Melesalis, *Walk.*
§§ Pedes graciles.
× Statura parva. - Litanalis, *Walk.*
×× Statura non parva.
0 Alæ non angustæ.
Jasiusalis, *Walk.*
00 Alæ angustæ. Æclusalis, *Walk.*
‡‡ Alæ anticæ non aut vix acutæ.
§ Alæ anticæ costa obscuriore.
Charesalis, *Walk.*
§§ Alæ anticæ costa non obscuriore.
× Alæ anticæ fusco conspersæ.
Phaleasalis, *Walk.*
×× Alæ anticæ fusco non conspersæ.
0 Pedes fasciati.
Pronaxalis, *Walk.*
00 Pedes non fasciati.
Sabinusalis, *Walk.*
* Palpi lati.
† Alæ albidæ.
‡ Alæ venis infuscatis. - Ochalis, *Walk.*
‡‡ Alæ venis non infuscatis. Lindusalis, *Walk.*
†† Alæ fuscescentes.
‡ Alæ elongatæ.
§ Alæ anticæ vix acutæ. Theialis, *Walk.*
§§ Alæ anticæ acutæ. - Teutalis, *Walk.*
‡‡ Alæ breviusculæ. - Dairalis, *Walk.*
† Alæ flavæ aut testaceæ.
‡ Palpi fasciati. - Heranialis, *Walk.*
‡‡ Palpi non fasciati.
§ Abdomen apice nigro varium.
Camillusalis, *Walk.*
§§ Abdomen apice nigro non varium.
× Alæ anticæ costa guttata.
Orissusalis, *Walk.*
×× Alæ anticæ costa non guttata.
0 Antennæ maris pubescentes.
Sinoualis, *Walk.*

00 Antennæ maris non pubescentes. - Badialis, *Walk.*

ii. Palporum articulus 3us longus.

* Palporum articulus 3us 2i dimidio longior. Thoasalis, *Walk.*

** Palporum articulus 3us 2i dimidio brevior. Hypsiusalis, *Walk.*

*** Palporum articulus 3us 2i dimidio valde brevior. Haliusalis, *Walk.*

c. Statura vix robusta.

i. Alæ testaceæ aut albidæ.

* Alæ anticæ macula alba. - Althealis, *Walk.*

** Alæ anticæ macula nulla alba. Fabiusalis, *Walk.*

ii. Alæ fuscescentes.

* Palpi lati. - - - Cosisalis, *Walk.*

** Palpi graciles. - - Poltisalis, *Walk.*

d. Statura robusta.

i. Palporum articulus 3us longiusculus.

* Alæ purpurascente-cinereæ. - Surusalis, *Walk.*

** Alæ testaceæ. - - Megillalis, *Walk.*

ii. Palporum articulus 3us brevissimus.

* Alæ anticæ ochraceo fasciatæ. Curiusalis, *Walk.*

** Alæ anticæ ochraceo non fasciatæ.

† Alæ macula hyalina. - Chironalis, *Walk.*

†† Alæ macula nulla hyalina.

‡ Alæ non elongatæ.

§ Alæ luteæ. - Boteralis, *Walk.*

§§ Alæ cervinæ. - - Nicoalis, *Walk.*

§§§ Alæ cinereæ. - Xipharesalis, *Walk.*

§§§§ Alæ fuscæ. - Xuthusalis, *Walk.*

‡‡ Alæ elongatæ.

§ Alæ ferrugineæ. - Anigrusalis, *Walk.*

§§ Alæ non ferrugineæ.

× Alæ non purpurascentes.

0 Alæ testaceo-cinereæ. Nilusalis, *Walk*

00 Alæ cinereo-fuscæ.

→ Palpi lati. Phænnisalis, *Walk.*

→→ Palpi non lati. Crithonalis, *Walk.*

×× Alæ purpurascentes.

0 Alæ anticæ acutæ.
Sulcialis, *Walk.*
00 Alæ anticæ non aut vix acutæ.
-+ Palpi apice fusci.
Ogoalis, *Walk.*
-+-+ Palpi apice albi.
Schediusalis, *Walk.*

Some of the divisions of *Botys* before mentioned will form distinct genera, and several new groups occur amongst the species of Borneo.

The Australasian species may be arranged in the following sections:—

Group 1.

Spissalis.

Group 2.

Grossalis.

Group 3.

Origoalis, Anigrusalis, Crithonalis, Chironalis, Schediusalis, Phænnisalis, Sulcialis, Nilusalis, Cosisalis, Licarsisalis, Xipharesalis, Æclusalis, Pronaxalis, Curiusalis, Ogoalis, Theialis, Turiusalis, Teutalis, Xuthusalis, Dolopsalis, Thoasalis, Castoralis, Halmusalis, Cydippealis, Badialis, Haliusalis, Surusalis, Tisiasalis, Deciusalis, Althealis, Tapsusalis, Hypsiusalis.

Group 4.

Dairalis.

Group 5.

Phytonalis.

Group 6.

Bræsialis, Nicoalis, Megillalis, Orissusalis, Coclesalis, Melonalis, Habisalis, Polusalis, Mœliusalis, Tampiusalis, Melesalis, Ilusalis, Hodiusalis, Litanalis, Hisbonalis, Didasalis, Sabinusalis, Jasiusalis, Charesalis, Macaralis, Rhipheusalis, Anialis.

Group 7.

Ochalis, Trogusalis, Lindusalis, Phaleasalis.

Group 8.

Camillusalis, Heranialis, Poltisalis, Fabiusalis, Sinonalis, Boteralis, Pœasalis, Marisalis, Trebiusalis, Œaxalis.

Group 9.

Varanesalis.

Group 10.

Taphiusalis.

231. Botys spissalis.

Fœm. *Alba; palpi rostriformes, incumbentes, tenues; antennæ robustæ, valde pubescentes; alæ linea submarginali fusca indeterminata, margine exteriore fusco; anticæ angustæ, elongatæ, dimidio exteriore subfuscescente; posticæ breves.*

Botys spissalis, *Guen. Delt. et Pyral.* 326, 353.

Java.

232. Botys grossalis.

Fœm *Testaceo-rufescens; palpi porrecti, rostriformes, longiusculi; antennæ robustæ; pedes squamoso-villosi; alæ amplæ, non nitentes; anticæ subfalcatæ, lineis duabus distinctis vagis nigricantibus, interiore brevi subangulata, exteriore valde flexa, reniformi vaga; posticæ margine exteriore subsinuato sordide ochraceo, litura disculi lineisque duabus obscuris.*

Botys grossalis, *Guen. Delt. et Pyral.* 327, 354.

Java.

233. Botys Origoalis.

Mas. *Ferruginea, robusta, dense vestita; palpi ascendentes, breves, latissimi, articulo 3o minimo; antennæ validæ; abdomen alas posticas superans, subtus album; pedes albi, femoribus tibiisque anticis testaceis, tibiis posterioribus fusco dense fasciculatis; alæ elongatæ, lineis interiore et exteriore nigricantibus; anticæ falcatæ, linea exteriore valde flexa, orbiculari punctiformi, reniformi sublunulata.*

Male. Ferruginous, stout, densely clothed. Palpi ascending, short, very broad, testaceous beneath at the base; third joint extremely short. Antennæ stout. Abdomen extending beyond the hind wings, somewhat tumid at the tip, with a broad white stripe beneath. Legs white, stout, pilose; fore femora and fore tibiæ testaceous; posterior tibiæ densely tufted with brown hairs. Wings elongate, opaque; interior and exterior lines blackish, incomplete in the hind wings; interior line almost straight and upright. Fore wings falcate; exterior line very much bent; orbicular mark punctiform; reniform narrow, slightly lunulate. Length of the body 7 lines; of the wings 16 lines.

a. Celebes. From Madame Ida Pfeiffer's collection.

234. Botys Anigrusalis.

Mas. *Ochracea, robusta; palpi fusci, ascendentes, breves, lati, obtusi, articulo 3o ochraceo brevissimo; antennæ robustæ, non pubescentes; abdomen cinereo-fuscum, alas posticas superans; pedes robusti, subpilosi, tarsis albis fusco subfasciatis, tibiis anticis basi supra albis; alæ ferrugineæ, elongatæ, lineis nigris, linea submarginali punctulari; anticæ subacutæ, linea interiore recta non obliqua, linea exteriore interrupta valde flexa, reniformi tenui arcuata nigra; posticæ lineis interiore et exteriore abbreviatis.*

Male. Ochraceous, stout, cinereous-brown beneath. Palpi brown, ascending, short, broad, obtuse; third joint ochraceous, very minute. Antennæ stout, not pubescent. Abdomen cinereous-brown, extending somewhat beyond the hind wings. Legs stout, slightly pilose; tarsi white, slightly banded with brown; fore tibiæ white above towards the base. Wings ferruginous, elongate; lines black; submarginal line slight, composed of points; fringe blackish cinereous, interlined with black towards the base. Fore wings slightly acute; interior line straight, upright; reniform mark represented by a curved black streak; exterior line very much bent, interrupted in the middle; exterior border very oblique. Hind wings with the interior and exterior lines abbreviated. Length of the body 7 lines; of the wings 14 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

235. Botys Crithonalis.

Mas. *Cinereo-fusca, robusta, dense vestita; palpi ascendentes, arcuati, non lati, articulo 2o longo, 3o brevissimo; antennæ*

non pubescentes; abdomen alas posticas longissime superans, apicem versus subcompressum; pedes robusti, femoribus tibiisque anticis obscure fuscis dense vestitis, tibiis posticis fusco pilosis; alæ opacæ, elongatæ, lineis interiore et exteriore fuscis undulatis; anticæ reniformi parva fusca.

Male. Cinereous-brown, stout, densely clothed, cinereous beneath. Palpi ascending, curved, not broad; second joint long; third extremely short. Antennæ not pubescent. Abdomen extending very far beyond the hind wings, slightly compressed towards the tip; apical tuft long. Legs stout; fore femora and fore tibiæ dark brown, densely clothed; hind tibiæ clothed with brown hairs. Wings opaque, elongate; interior and exterior lines brown, undulating. Fore wings with a small brown reniform mark; exterior border extremely oblique. Length of the body 9 lines; of the wings 15 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

236. Botys Chironalis.

Mas. *Cinereo-fusca, robusta, subtus candida; palpi ascendentes, densissime fasciculati; antennæ pubescentes; abdomen alas posticas longe superans, fasciculo apicali parvo luteo; pedes robusti, subpilosi, testacei, tibiis tarsisque posticis densissime fasciculatis, femoribus tibiisque anticis nigricantibus, his basi testaceis; alæ macula magna discali alba hyalina; anticæ elongatæ, subacutæ.*

Male. Cinereous-brown, stout, shining white beneath. Palpi ascending higher than the vertex, most densely tufted; the joints concealed by the mass of hairs. Antennæ pubescent. Abdomen extending far beyond the hind wings; apical tuft small, luteous. Legs stout, slightly pilose, mostly testacceous; hind tibiæ and hind tarsi most densely tufted with blackish hairs; fore femora and fore tibiæ blackish, the latter testaceous towards the base. Wings with a large white hyaline spot in each disk. Fore wings elongate, slightly acute; exterior border extremely oblique. Length of the body 8 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

237. Botys Schediusalis.

Mas. *Nigricante-fusca, robusta; palpi ascendentes, breves, lati, obtusi, subtus et apice albi; antennæ validæ, pubescentes; pectus antice niveum; abdomen alas posticas sat superans;*

pedes cinereo-fusci, tarsis albis; alæ elongatæ, subpurpurascentes, lineis interiore et exteriore nigricantibus undulatis diffusis indistinctis, fimbria cinerea nigro interlineata; antice vix acutæ, orbiculari et reniformi nigricantibus indistinctis.

Male. Blackish brown, stout, whitish beneath. Palpi ascending, short, broad, obtuse, white beneath and at the tips; third joint extremely minute. Antennæ stout, pubescent. Pectus pure white in front. Abdomen extending somewhat beyond the hind wings, rather tumid towards the tip, which is brown beneath. Legs cinereous-brown, smooth; tarsi white. Wings elongate, tinged with purple, cinereous-brown beneath; interior and exterior lines blackish, undulating, diffuse, indistinct; fringe cinereous, interlined with black near the base. Fore wings hardly acute; orbicular and reniform marks blackish, indistinct; exterior border very oblique. Length of the body 6 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

238. Botys Phænnisalis.

Fœm. *Cinereo-fusca, robusta; palpi ascendentes, lati, subarcuati, articulo 3o minimo; antennæ graciles; pectus antice niveum; abdomen alas posticas superans; pedes validi; alæ elongatæ, opacæ, lineis interiore et exteriore fuscis undulatis; anticæ acutæ, linea exteriore valde flexa, orbiculari et reniformi parvis fuscis.*

Female. Cinereous-brown, stout, whitish beneath. Palpi ascending, broad, slightly curved; third joint short-conical, not one-sixth of the length of the second. Antennæ slender. Pectus pure white in front. Abdomen extending rather beyond the hind wings. Legs smooth, stout. Wings elongate, opaque; interior and exterior lines brown, undulating. Fore wings acute; exterior line much bent; orbicular and reniform marks small, brown; exterior border very oblique. Length of the body 6 lines; of the wings 16 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

239. Botys Sulcialis.

Mas. *Fusca, sat robusta, subtus albida; caput subtus et pectus antice nivea; palpi ascendentes, arcuati, obtusi, non lati; antennæ sat graciles; abdomen alas posticas longe superans; alæ*

cinereo-fuscæ, elongatæ, sat amplæ, purpurascentes, lineis interiore et exteriore fuscis diffusis undulatis subobsoletis; anticæ acutæ, orbiculari et reniformi vix conspicuis.

Male. Brown, rather stout, whitish beneath. Head beneath and fore part of the thorax pure white. Palpi curved, obtuse, not broad, ascending a little higher than the vertex; third joint extremely minute. Antennæ rather slender. Abdomen extending far beyond the hind wings; apical tuft long. Legs smooth. Wings cinereous-brown, elongate, somewhat ample, tinged with purple; interior and exterior lines brown, diffuse, undulating, almost obsolete; fringe cinereous. Fore wings acute; orbicular and reniform marks hardly visible; exterior border very oblique. Length of the body 7 lines; of the wings 16 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

240. Botys Nilusalis.

Mas. *Testaceo-cinerea, robusta, fusco conspersa; palpi fusci, ascendentes, breves, lati, subtus albi, articulo 3o brevissimo; antennæ pubescentes; abdomen alas posticas sat superans; tibiæ anticæ apice nigricantes; alæ elongatæ, lineis interiore et exteriore nigricantibus distinctis undulatis latiusculis, punctis marginalibus nigris, fimbria cinerea, fusco interlineata; anticæ acutæ, lineis interiore et exteriore apud costam dilatatis, hac valde flexa, orbiculari et reniformi nigris.*

Male. Testaceous-cinereous, stout, speckled with brown, whitish beneath. Palpi brown, ascending, short, broad, obtuse, white beneath; third joint extremely minute. Antennæ pubescent. Abdomen extending rather beyond the hind wings. Legs smooth; fore tibiæ blackish towards the tips. Wings elongate; interior and exterior lines blackish, distinct, undulating, rather broad; marginal points black; fringe cinereous, interlined with brown. Fore wings acute; interior and exterior lines dilated by the costa, the latter line very much bent; orbicular and reniform marks black, of the usual form; exterior border slightly convex, very oblique. Length of the body 5 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

241. Botys Cosisalis.

Mas. *Fusca, vix robusta; palpi ascendentes, breves, lati, obtusi; antennæ pubescentes; pectus antice niveum; abdomen alas*

posticas paullo superans, segmentis albo marginatis; tibiæ anticæ apice fusco; alæ subpurpurascentes, lineis interiore et exteriore albidis undulatis; fimbria cinerea basi alba; anticæ subacutæ, linea exteriore valde flexa apud costam dilatata, macula discali quadrata alba; posticæ lineis incompletis dilatatis.

Male. Brown, hardly stout, white beneath. Palpi ascending, short, broad, obtuse; third joint extremely minute. Antennæ pubescent. Pectus pure white in front. Abdomen extending a little beyond the hind wings; hind borders of the segments white. Legs smooth; fore tibiæ brown towards the tips. Wings moderately broad, tinged with purple; interior and exterior lines whitish, undulating, somewhat diffuse; fringe cinereous, white at the base. Fore wings slightly acute; exterior line very much bent, dilated by the costa and behind the reniform mark, the latter represented by a white quadrate spot, which is bordered with dark brown on each side. Hind wings with the lines somewhat incomplete and dilated. Length of the body 5 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

242. Botys Licarsisalis.

Fœm. *Fuscescente-cinerea, vix robusta; palpi porrecti, breves, squamosi, vix lati, subtus albi; antennæ graciles; pectus antice niveum; abdomen cinereum, alas posticas valde superans, segmentis albo marginatis; alæ opacæ, subæneæ, lineis interiore et exteriore fuscis denticulatis valde indistinctis; anticæ acutæ, linea exteriore valde flexa, orbiculari et reniformi fuscis parvis.*

Female. Brownish cinereous, hardly stout, whitish beneath. Palpi porrect, short, hardly broad, white beneath, fringed with squamous hairs; third joint minute, concealed by the hairs. Antennæ slender. Pectus pure white in front. Abdomen cinereous, extending very much beyond the hind wings; hind borders of the segments white. Legs smooth. Wings opaque, moderately broad, with a slight æneous tinge; interior and exterior lines brown, denticulated, very indistinct; fringe cinereous, interlined with brown towards the base. Fore wings acute; exterior line very much bent; orbicular and reniform marks brown, small, the latter narrow; exterior border moderately oblique. Length of the body 5 lines; of the wings 10 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

243. Botys Xipharesalis.

Mas. *Cinerea, sat robusta, dense vestita; palpi ascendentes, breves, lati, obtusi; antennæ pubescentes; abdomen alas posticas longissime superans; pedes fimbriati, tibiis anticis apice fuscis; alæ opacæ, subiridescentes, linea exteriore undulata e punctis guttisque nigricantibus, gutta discali nigricante supra obsoleta; anticæ apice subrotundatæ; posticæ apud marginem interiorem pilosissimæ.*

Male. Cinereous, rather stout, thickly clothed, paler beneath. Palpi ascending, short, broad, obtuse; third joint hardly visible. Antennæ pubescent. Abdomen extending very far beyond the hind wings; apical tuft small, diverging. Femora and tibiæ fringed with hairs; fore tibiæ brown towards the tips. Wings opaque, moderately broad, slightly iridescent; exterior line undulating, composed of blackish points and dots; a blackish discal dot, not visible above. Fore wings slightly rounded at the tips. Hind wings very pilose along the interior border. Length of the body 9 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

244. Botys Æclusalis.

Mas. *Fuscescente-cinerea; palpi ascendentes, arcuati, vix lati, subtus basi albi, articulo 3o minimo; antennæ squamosæ; abdomen alas posticas dimidio superans; alæ angustæ, opacæ, subpurpurascentes, linea exteriore fusca recta obliqua, fimbria cinerea fusco interlineata; anticæ acutæ, orbiculari et reniformi obscure fuscis, hac parva, margine exteriore perobliquo.*

Male. Brownish cinereous, slender, a little paler beneath. Palpi ascending, curved, hardly broad, not rising higher than the vertex, white beneath towards the base; third joint very minute. Maxillary palpi distinct. Antennæ squamous. Abdomen extending for half its length beyond the hind wings. Legs smooth, long, slender. Wings narrow, opaque, with a purple tinge; exterior line brown, straight, oblique, continuous; fringe cinereous, interlined with brown. Fore wings acute; orbicular and reniform marks dark brown, the latter small; exterior border very oblique. Length of the body 6½ lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

245 Botys Pronaxalis.

Mas. *Albida, gracilis, fusco notata; palpi ascendentes, arcuati, obtusi, non lati, fusco bifasciati; antennæ sat validæ; abdomen alas posticas longe superans, apice album fusco vittatum; pedes fusco fasciati; alæ elongatæ, fuscæ, iridescentes, lineis interiore et exteriore obscure fuscis undulatis, linea marginali alba; anticæ apice subrotundatæ, apud costam albidæ, linea basali obscure fusca, linea exteriore valde flexa, spatio intermedio albido.*

Male. Whitish, slender, marked with brown. Palpi ascending, curved, obtuse, not broad, with two brown bands; third joint not more than one-sixth of the length of the second. Antennæ rather stout. Abdomen extending rather far beyond the hind wings; apical segment white, with brown stripes. Legs smooth, with brown bands. Wings elongate, brown, iridescent; interior and exterior lines dark brown, undulating; marginal line white; fringe whitish, brown at the base. Fore wings somewhat rounded at the tips, mostly whitish along the costa; basal line dark brown; exterior line much bent; space between it and the interior line whitish; orbicular and reniform marks dark brown, the former punctiform, the latter an irregular ringlet; exterior border extremely oblique. Length of the body 5 lines; of the wings 11 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

246. Botys Curiusalis.

Mas. *Purpurascente-fusca, robusta, subtus testacea; palpi ascendentes, subarcuati, basi testacei, articulo 3o minimo; palpi maxillares breves, graciles; antennæ validæ, pubescentes, basi incrassatæ et incisæ; pectus candidum; abdomen alas posticas sat superans; pedes robusti, femoribus posticis fasciculatis, tibiis intermediis dense fasciculatis, tibiis anticis apice nigris, tarsis posticis basi fasciculatis; alæ opacæ; anticæ apice subrotundatæ, fascia exteriore lata ochracea, postice abbreviata.*

Male. Purplish brown, stout, testaceous beneath. Palpi ascending, slightly curved, moderately broad, testaceous towards the base; third joint extremely minute. Maxillary palpi short, slender. Antennæ stout, pubescent, incrassated and notched at the base. Pectus shining white. Abdomen extending rather beyond the hind

wings. Legs stout; hind femora short, tufted; middle tibiæ densely tufted; fore tibiæ black towards the tips, slightly tufted; hind tarsi tufted at the base. Wings opaque, moderately broad. Fore wings somewhat rounded at the tips, with a broad exterior ochraceous band, which is narrower hindward and does not extend to the interior angle. Length of the body 6 lines; of the wings 11 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

247. Botys Ogoalis.

Fœm. *Cinereo-fusca, robusta; palpi ascendentes, non lati, subtus albi, articulo 3o conico brevissimo; antennæ sat validæ; abdomen alas posticas paullo superans; tibiæ anticæ apice fuscæ; alæ elongatæ, æneo-purpurascente nitentes, lineis interiore et exteriore fuscis undulatis valde indistinctis; anticæ apice rotundatæ, margine exteriore antico non obliquo, orbiculari et reniformi fuscis indistinctis cinereo notatis.*

Female. Cinereous-brown, stout, whitish beneath. Palpi ascending a little higher than the vertex, not broad, white beneath, except towards the tips; third joint conical, not one-sixth of the length of the second. Antennæ rather stout. Abdomen extending a little beyond the hind wings. Legs smooth; fore tibiæ brown towards the tips. Wings elongate, tinged with purplish æneous; interior and exterior lines brown, undulating, very indistinct, the latter slightly cinereous-bordered; fringe cinereous. Fore wings not acute; exterior border not oblique, except hindward, where it is rounded; orbicular and reniform marks brown, cinereous-marked, indistinct. Length of the body 5 lines; of the wings 13 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

248. Botys Theialis.

Mas. *Cinereo-fusca, gracilis; palpi ascendentes, breves, lati, vix angulati; articulus 3us conicus, 2i dimidio brevior; palpi maxillares breves; antennæ sat robustæ; abdomen alas posticas longe superans, segmentis albo marginatis; tibiæ intermediæ subincrassatæ; tarsi antici albido fasciati; alæ elongatæ, linea exteriore fusca obliqua subrecta, punctis marginalibus fuscis; anticæ vix acutæ, orbiculari et reniformi fuscis.*

Male. Cinereous-brown, slender, cinereous beneath. Palpi obliquely ascending, short, hardly broad; third joint conical, less than half the length of the second, with which it forms a slight angle. Maxillary palpi short. Antennæ rather stout. Abdomen extending far beyond the hind wings; hind borders of the segments white. Legs smooth; middle tibiæ slightly thickened; fore tarsi with whitish bands. Wings elongate; exterior line brown, oblique, nearly straight; marginal points brown. Fore wings hardly acute; orbicular and reniform marks brown, the former punctiform, the latter lunulate. Length of the body 5½ lines; of the wings 10 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

249. Botys Turiusalis.

Mas. *Ochracea, sat robusta; palpi porrecti, breves, lati, subtus nivei; palpi maxillares distincti; antennæ sat validæ; pectus antice niveum; abdomen alas posticas superans; tibiæ intermediæ dilatatæ; alæ opacæ, vix iridescentes; anticæ acutæ, flavescente variæ, lineis interiore et exteriore fuscis subundulatis, hac flexa, punctis marginalibus fuscis, reniformi e gutta fusca; posticæ fuscescentes.*

Male. Ochraceous, rather stout, white beneath. Palpi porrect, short, broad, pure white beneath towards the base; third joint minute, concealed by the hairs. Maxillary palpi distinct. Antennæ bare, rather stout. Pectus pure white in front. Abdomen paler than the thorax, extending somewhat beyond the hind wings. Legs smooth; fore tibiæ brown towards the tips; middle tibiæ dilated. Wings opaque, moderately broad, hardly iridescent; fringe cinereous. Fore wings acute, partly yellowish about the exterior and interior borders; interior and exterior lines brown, slightly undulating, the latter bent; marginal points brown; reniform mark represented by a brown dot. Hind wings brownish. Length of the body 5 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

250. Botys Teutalis.

Fœm. *Cinereo-fusca, sat gracilis; palpi nigricante-fusci, ascendentes, breves, lati, obtusi, subtus nivei; palpi maxillares distincti; antennæ longæ, graciles; pectus anticæ niveum;*

abdomen alas posticas superans, segmentis albido marginatis; alæ elongatæ, lineis nigricantibus, linea interiore valde indistincta, linea exteriore obliqua subrecta, linea marginali distincta; anticæ acutæ, orbiculari punctiformi, reniformi lunulata.

Female. Cinereous-brown, rather slender, whitish beneath. Palpi blackish brown, obliquely ascending, short, broad, obtuse, pure white beneath; third joint very minute. Maxillary palpi distinct. Antennæ squamous, long, slender. Pectus pure white in front. Abdomen extending somewhat beyond the hind wings; hind borders of the segments whitish. Legs smooth, slender. Wings elongate; lines blackish; interior line very indistinct; exterior line oblique, nearly straight; marginal line distinct; fringe blackish cinereous. Fore wings acute; orbicular mark punctiform; reniform lunulate; exterior border very oblique. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

251. Botys Xuthusalis.

Fœm. *Fusca, sat robusta; palpi ascendentes, non longi, vix lati, albo fasciati, articulo 3o minimo; palpi maxillares distincti; antennæ sat validæ; abdomen alas posticas vix superans; pedes subpilosi; antici nigricante fasciati; alæ opacæ, latiusculæ, lineis interiore et exteriore subrectis obscure fuscis pallido marginatis postice approximatis; anticæ apice subrotundatæ, reniformi fusca angusta; posticæ lineâ marginali alba postice latiore.*

Female. Brown, rather stout, cinereous beneath. Palpi obliquely ascending, not long, hardly broad, with a white oblique band; third joint extremely minute. Maxillary palpi distinct. Antennæ moderately stout. Abdomen hardly extending beyond the hind wings. Legs slightly pilose; fore legs with blackish bands. Wings opaque, rather broad; interior and exterior lines dark brown, pale-bordered, nearly straight, converging hindward, approximate by the interior border of the hind wings. Fore wings slightly rounded at the tips; reniform mark brown, narrow. Hind wings with a white marginal line, which is broadest and most distinct towards the interior angle. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

252. Botys Dolopsalis.

Mas. *Fuscescente-cinerea, sat robusta; palpi porrecti, longiusculi, non lati, articulo 3o sat longo; antennæ pubescentes; abdomen alas posticas superans; alæ lineis interiore et exteriore fuscescentibus indistinctis undulatis cinereo submarginatis, hac flexa, fimbria extus alba; anticæ acutæ, orbiculari et reniformi fuscis, macula intermedia oblonga subquadrata alba, macula exteriore costali alba.*

Male. Brownish cinereous, moderately stout. Palpi porrect, rather long, not broad, white beneath towards the base; third joint acutely conical, hardly one-third of the length of the second. Antennæ pubescent. Abdomen extending rather beyond the hind wings. Legs smooth. Wings moderately broad; interior and exterior lines brownish, indistinct, undulating, slightly cinereous-bordered, the latter bent; fringe white exteriorly. Fore wings acute; orbicular and reniform marks brown, with an oblong, subquadrate white spot between them; a white costal spot on the outer side of the exterior line; exterior border moderately oblique. Length of the body 5 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

253. Botys Thoasalis.

Cinereo-fusca, gracilis, subtus candida; palpi erecti, graciles, subarcuati; articulus 3us lanceolatus, 2i dimidio longior; antennæ moniliformes; alæ opacæ, lineis interiore, exteriore et marginali obscure fuscis, fimbria cinerea basi testacea fusco interlineata; anticæ acutæ, apud costam testaceæ, linea basali nigricante, linea exteriore valde flexa apud costam albo marginata, reniformi nivea quadrata nigro marginata.

Cinereous-brown, slender, shining white beneath. Palpi vertical, slender, slightly curved; third joint lanceolate, more than half the length of the second. Antennæ squamous, moniliform. Legs smooth. Wings opaque; interior, exterior and marginal lines dark brown; fringe cinereous, testaceous at the base, interlined with brown. Fore wings acute, testaceous along most of the costa; basal line blackish; exterior line extremely bent, with a white mark on its exterior side by the costa; reniform mark represented by an elongate-quadrate pure white spot, which is bordered with black on each side. Length of the body 4? lines; of the wings 9 lines.

♂. Sarawak, Borneo. From Mr. Wallace's collection.

254. BOTYS CASTORALIS.

Fœm. *Testacea, gracilis; caput album; palpi fusci, subascendentes, breves, non lati, subtus nivei; antennæ sat validæ; pectus antice niveum; abdomen alas posticas superans, segmentis albo marginatis, maculis duabus subapicalibus albis; alæ elongatæ, lineis interiore et exteriore fuscis denticulatis, hac valde flexa, fimbria alba basi fusca; anticæ apice subrotundatæ, lituris duabus costalibus maculisque tribus subcostalibus albis, macula exteriore tridentata.*

Female. Testaceous, slender, whitish beneath. Head white. Palpi brown, slightly ascending, short, not broad, pure white beneath, except towards the tips; maxillary palpi distinct. Antennæ moderately stout. Pectus pure white in front. Abdomen extending rather beyond the hind wings; hind borders of the segments white; two white spots near the tip. Legs slender. Wings elongate; interior and exterior lines brown, denticulated, the latter much bent; fringe white, brown at the base. Fore wings somewhat rounded at the tips, with two small white costal marks, and with three more conspicuous subcostal spots; second of the latter larger than the first, third tridentate exteriorly. Hind wings with a broad white fringe on the interior border. Length of the body 6 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

255. BOTYS HALMUSALIS.

Mas. et fœm. *Cinerea, gracilis; palpi fusci, porrecti, breves, lati; palpi maxillaris distincti; antennæ graciles; abdomen alas posticas superans, segmentis albo marginatis; tibiæ anticæ apice fuscæ; alæ lineis interiore et exteriore fuscis denticulatis valde indistinctis, linea marginali fusca, fimbria alba fusco interlineata basi testacea; antice valde acutæ, linea exteriore valde flexa.*

Male. Cinereous, slender, white beneath. Palpi brown, porrect, short, broad, white beneath towards the base; third joint conical, not one-fourth of the length of the second. Maxillary palpi distinct. Antennæ smooth, slender. Abdomen extending rather beyond the hind wings; hind borders of the segments white. Legs smooth, slender; fore tibiæ brown towards the tips. Wings moderately broad; interior and exterior lines brown, denticulated, very indistinct;

marginal line brown; fringe white, interlined with brown near the base, which is testaceous. Fore wings very acute; exterior line much bent; reniform mark not more distinct than the lines; exterior border slightly oblique. Length of the body 4 lines; of the wings 9 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

256. Botys Cydipealis.

Mas. *Ochraceo-cervina, gracilis; palpi porrecti, fimbriati, capite longiores, subtus basi albi, articulo 3o gracili; antennæ validæ, squamosæ, basi valde dilatatæ, articulo 1o fasciculato; abdomen alas posticas longissime superans; pedes glabri, tibiis anticis dense fasciculatis; alæ elongatæ, angustæ, margine exteriore subobscuriore, fimbria subinterlineata, linea submarginali e punctis paucis nigris; anticæ acutæ, margine exteriore valde obliquo.*

Male. Ochraceous fawn-colour, slender, whitish beneath. Palpi porrect, fringed, longer than the head, white beneath towards the base; third joint slender, hidden by the hairs. Antennæ stout, squamous; first joint emitting a penicillate tuft at its tip; the following space extremely dilated, spatuliform. Abdomen extending far beyond the hind wings. Legs smooth; fore tibiæ densely tufted. Wings elongate, narrow, a little darker along the exterior border; fringe slightly interlined; submarginal line very incomplete, consisting of a few black points. Fore wings acute; exterior border extremely oblique. Length of the body 6½ lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

257. Botys Badialis.

Mas. *Testacea, gracilis; palpi fusci, ascendentes, breves, lati, subtus nivei, articulo 3o minimo; antennæ non pubescentes; abdomen album, alas posticas longissime superans; alæ elongatæ, valde indescentes; anticæ vix acutæ, fasciis duabus latis subhyalinis fuscescente marginatis litura costali basali fuscescente; posticæ bis triente interiore subhyalina, linea exteriore fuscescente.*

Male. Testaceous, shining, slender, white beneath. Palpi brown, obliquely ascending, short, broad, pure white beneath; third joint very small. Antennæ not pubescent. Pectus pure white in front.

Abdomen white, extending very far beyond the hind wings. Legs smooth, long, slender. Wings elongate, very iridescent. Fore wings hardly acute, with two broad almost hyaline brownish-bordered bands; a brownish mark on the costa by the base. Hind wings with two-thirds of the surface from the base almost hyaline, bounded by an exterior brownish line; interior line obsolete, except near the costa. Length of the body 8 lines; of the wings 14 lines.

258. Botys Haliusalis.

Mas. *Purpurascente-cinerea, sat gracilis, subtus nivea; palpi ascendentes, acuti, sat graciles, articulo 3o longi-conico; abdomen alas posticas sat longe superans; alæ elongatæ, semihyalinæ; anticæ acutæ, plagis duabus costalibus magnis pallide flavis subtrigonis, lineis obsoletis.*

Male. Purplish cinereous, rather slender, pure white and shining beneath. Palpi curved, ascending, rather slender, applied to the head; third joint elongate-conical, about one-fourth of the length of the second. Antennæ smooth, slender. Abdomen extending rather far beyond the hind wings. Legs smooth. Wings elongate, semihyaline. Fore wings acute, with two large pale yellow somewhat triangular costal patches, which are nearly connected along the costa; lines obsolete. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

259. Botys Surusalis.

Fœm. *Purpurascente-cinerea, sat robusta; palpi ascendentes, arcuati, graciles, articulo 3o longi-conico; antennæ sat validæ; abdomen alas posticas paullo superans, segmentis albo marginatis; pedes intermedii subdilatati; alæ latiusculæ, iridescentes; anticæ acutæ, apud costam luteæ, fascia obliqua media maculisque duabus exterioribus costalibus luteis; posticæ pallidiores, basi albidæ.*

Female. Purplish cinereous, moderately stout, white beneath. Palpi ascending, curved, slender, applied to the head; third joint elongate-conical, about one-fourth of the length of the second. Antennæ rather stout. Abdomen extending a little beyond the hind wings; hind borders of the segments white. Legs smooth; middle legs slightly dilated. Wings rather broad, iridescent. Fore wings

acute, irregularly luteous along the costa and about the base of the interior border; a luteous slightly oblique middle band, and beyond it two luteous costal spots; exterior border moderately oblique. Hind wings paler than the fore wings, whitish towards the base. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

260. Botys Tisiasalis.

Fœm. *Lutea, vix robusti; oculi albo cincti; palpi porrecti, lati, rostriformes, subtus nivei; palpi maxillares breves; pectus antice niveum; abdomen alas posticas paullo superans; alæ opacæ, margine exteriore subobscuriore, linea exteriore undulata e punctis paucis nigricantibus, fimbria cinerea basi lutea.*

Female. Luteous, hardly stout, white beneath. Head white about the eyes. Palpi porrect, rostriform, broad, as long as the head, pure white beneath; third joint concealed by the hairs. Maxillary palpi short. Antennæ smooth, rather slender. Pectus pure white in front. Abdomen extending a little beyond the hind wings. Legs smooth. Wings opaque, moderately broad; exterior line undulating, represented by a few blackish points; exterior border a little darker than the ground-colour; fringe cinereous, shining, luteous towards the base. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

261. Botys Deciusalis.

Fœm. *Testacea, sat gracilis; palpi ascendentes, breves, subarcuati, sat graciles, articulo 3o minimo; abdomen alas posticas sat superans; tibiæ intermediæ subincrassatæ, anticæ apice nigricantes; alæ opacæ, subiridescentes, lineis interiore et exteriore subobsoletis; anticæ vix acutæ, margine exteriore sat obliquo.*

Female. Testaceous, rather slender, whitish beneath. Palpi ascending, short, rather slender, slightly curved; third joint extremely minute. Antennæ rather slender. Abdomen extending rather beyond the hind wings. Legs smooth; middle tibiæ slightly thickened; fore tibiæ blackish towards the tips. Wings opaque, moderately broad, slightly iridescent; interior and exterior lines almost obsolete, of the usual form; fringe not differing from the

rest of the wing in colour. Fore wings hardly acute; exterior border rather oblique. Length of the body 5 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

262. Botys Althealis.

Fœm. *Testaceo-alba, vix robusta; palpi longi, graciles, subarcuati, verticem superantes, articulo 3o lanceolato; thorax fusco fasciatis; pectus antice niveum; abdomen alas posticas perpaullo superans, fasciis nonnullis fuscis; pedes appressi, tibiis anticis apice fuscis; alæ elongatæ, apud marginem exteriorem latissime fuscæ, macula discali magna albo hyalina, lineis interiore et exteriore fuscis undulatis indeterminatis; anticæ apice subrotundatæ, costa fusca, linea exteriore valde flexo.*

Female. Testaceous-white, hardly stout, white beneath. Palpi long, slender, rising rather high above the vertex, slightly curved; third joint lanceolate, not more than one-fourth of the length of the second. Antennæ slender. Thorax with a brown band. Pectus pure white in front. Abdomen with brown bands, extending very little beyond the hind wings. Legs smooth, somewhat flattened; fore tibiæ brown towards the tips. Wings elongate, irregularly but very broadly brown along the exterior border; a large white hyaline spot in each disk; interior and exterior lines brown, undulating, partly confused with the brown tint which prevails elsewhere. Fore wings slightly rounded at the tips; costa brown; exterior line extremely bent; exterior border convex, rather oblique. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

263. Botys Tapusalis.

Mas. *Flava, sat robusta; palpi porrecti, acuminati, breviusculi, sat graciles, extus fusci; antennæ validæ; abdomen cylindricum, alas posticas perpaullo superans; alæ elongatæ, semihyalinæ, iridescentes ex parte chalybeæ aut purpurascente-fuscæ, lineis fuscis; anticæ acutæ, spatio basali obliquo usque ad angulum interiorem obscuro, lineis interiore et exteriore liturisque discalibus non bene determinatis; posticæ dimidio basali, costa apicegue obscuris.*

Male. Yellow, rather stout, shining white beneath. Palpi porrect, acuminated, rather short and slender, brown on the outer side. Antennæ stout, minutely squamous. Abdomen cylindrical, extending very little beyond the hind wings. Legs smooth. Wings elongate, semihyaline, iridescent, partly chalybeous or purplish brown; lines brown; fringe white, yellow towards the base. Fore wings acute, with the dark part occupying the whole basal surface, excepting the costa, and extending thence to the interior angle; interior and exterior lines and discal marks irregular. Hind wings with the whole basal half occupied by the dark part, which also extends along the whole length of the costa, and is dilated on the apical part. Length of the body 3½ lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

264. Botys Dairalis.

Fœm. *Fusca, gracilis; palpi nigricantes, subascendentes, breves, lati, subtus albi, articulo 3o minimo; palpi maxillares distincti; abdomen alas posticas vix superans; tibiæ anticæ apice nigricantes; alæ cupreo tinctæ, breviusculæ, latiusculæ, subtus cinereæ, lineis interiore et exteriore nigricantibus, indistinctis; anticæ vix acutæ, linea exteriore valde flexa, reniformi nigricante indistincta, margine exteriore convexo.*

Female. Brown, slender, white beneath. Palpi blackish, slightly ascending, short, broad, white beneath; third joint extremely minute. Maxillary palpi distinct. Antennæ slender. Abdomen hardly extending beyond the hind wings. Legs slender, smooth; fore tibiæ blackish towards the tips. Wings with a cupreous tinge, rather short and broad, cinereous beneath; interior and exterior lines blackish, indistinct. Fore wings hardly acute; exterior line much bent; reniform mark blackish, indistinct; exterior border convex, slightly oblique. Length of the body 3½ lines; of the wings 8 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

265. Botys Phytonalis.

Mas. *Ochracea, vix robusta; palpi porrecti, breves, lati, articulo 3o minimo; antennæ validæ; abdomen alas posticas perpaullo superans; pedes glabri; alæ albidæ, lituris plurimis transversis ochraceis, fimbria fusca basi nigricante; anticæ acutæ,*

vitta postica basali in discum producta maculaque magna discali candidis, pluga postica ferruginea; posticæ basi candidæ, linea intermedia ferruginea.

Male. Ochraceous, hardly stout, white beneath. Palpi porrect, short, broad; third joint very minute, concealed by the hairs. Antennæ stout. Abdomen extending very little beyond the hind wings. Legs smooth. Wings whitish, moderately broad, with very numerous transverse ochraceous marks; fringe brown, blackish at the base. Fore wings acute, with a pure white stripe extending along the basal part of the interior border and produced into the disk; a large exterior discal spot of the same hue; hindward intermediate part ferruginous. Hind wings with a pure white ferruginous-bordered basal space. Length of the body 4—4½ lines; of the wings 8—9 lines.

a, *b*. Sarawak, Borneo. From Mr. Wallace's collection.

266. Botys Brœsialis.

Mas. *Ochraceo-ferruginea, gracilis; palpi porrecti, breves, lati, obtusi, subtus basi nivei; antennæ robustæ; pectus album; abdomen alas posticas longe superans, fasciculo apicali albo; tibiæ intermediæ incrassatæ, subtus albæ; alæ opacæ; anticæ acutæ, linea exteriore nigricante denticulata valde flexa, punctis marginalibus nigricantibus, fimbria obscure cinerea basi pallida, reniformi parva nigricante; posticæ cinereo-fuscæ, linea exteriore indistincta.*

Male. Ochraceous-ferruginous, slender, fawn-colour beneath. Palpi porrect, short, broad, obtuse, pure white beneath towards the base. Antennæ stout, not pubescent. Pectus white, pure white in front. Abdomen extending rather far beyond the hind wings; apical tuft white. Legs smooth; middle tibiæ incrassated, white beneath. Wings opaque, moderately broad. Fore wings acute; exterior line blackish, denticulated, much bent; marginal points blackish; fringe dark cinereous, pale at the base; reniform mark small, blackish. Hind wings cinereous-brown; exterior line indistinct. Length of the body 7 lines; of the wings 14 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

267. Botys Nigoalis.

Fœm. *Cervina, sat robusta; palpi erecti, fimbriati, breviusculi, non lati, articulo 3o brevissimo; antennæ sat validæ, articulo 1o incrassato; abdomen alas posticas vix superans, segmentis albido marginatis; pedes antici nigro fasciati; alæ latiusculæ, lineis interiore et exteriore nigricantibus subundulatis, punctis marginalibus nigris; anticæ margine exteriore antico non obliquo, linea exteriore valde flexa, reniformi nigricante lunulata.*

Female. Fawn-colour, moderately stout, whitish beneath. Palpi vertical, fringed, rather short, not broad, white in front; third joint not one-sixth of the length of the second. Antennæ rather stout; first joint incrassated. Abdomen hardly extending beyond the hind wings; hind borders of the segments whitish. Legs smooth; fore legs with black bands. Wings rather broad; interior and exterior lines blackish, slightly undulating; exterior border pale, with black points. Fore wings rectangular at the tips; exterior border oblique hindward; exterior line extremely bent; reniform mark blackish, lunulate. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

268. Botys Megillalis.

Fœm. *Testacea, sat robusta; palpi fusci, ascendentes, arcuati, non lati, subtus basi albi, articulo 3o longi-conico; abdomen alas posticas vix superans; tibiæ anticæ apice nigricantes; alæ opacæ, latiusculæ, lineis interiore et exteriore fuscis denticulatis incompletis, margine exteriore fuscescente, fimbria fusco interlineata extus albida; anticæ acutæ, lineis interiore et exteriore apud costam nigris dilatatis, reniformi nigra antice angusta.*

Female. Testaceous, moderately stout, white beneath. Palpi brown, ascending, curved, not broad, rising as high as the vertex, white beneath towards the base; third joint elongate-conical, less than half the length of the second. Antennæ squamous. Abdomen extending hardly beyond the hind wings. Legs smooth; fore tibiæ blackish towards the tips. Wings opaque, rather broad; interior and exterior lines brown, slight, denticulated, incomplete; exterior border brownish; fringe whitish exteriorly, interlined with brown.

Fore wings acute; interior and exterior lines black and dilated by the costa, the latter line much bent; reniform mark black, narrow in front; exterior border moderately oblique. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

269. Botys Orissusalis.

Fœm. *Lutea, sat gracilis, subtus albida; palpi ascendentes, arcuati, vix lati, articulo 3o brevissimo; pectus antice niveum; abdomen alas posticas vix superans; pedes antici fusco fasciati; alæ amplæ, opacæ, lineis interiore et exteriore fuscis undulatis incompletis, linea submarginali guttulari; anticæ acutæ, linea exteriore valde flexa, reniformi lunulata guttisque tribus costalibus nigris.*

Female. Luteous, rather slender, whitish beneath. Palpi ascending, curved, hardly broad; third joint very minute, not more than one-sixth of the length of the second. Antennæ rather slender. Pectus pure white in front. Abdomen hardly extending beyond the hind wings. Legs smooth; fore legs with brown bands. Wings ample, opaque; interior and exterior lines brown, undulating, incomplete; submarginal line composed of brown dots; fringe cinereous. Fore wings acute, with three black costal dots, of which the second and third terminate the interior and exterior lines, the latter much bent; reniform mark black, somewhat lunulate. Length of the body 6 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

270. Botys Coclesalis.

Fœm. *Testacea, sat valida; oculi albo cincti; palpi cervini, porrecti, lati, subtus albi, articulo 3o longiusculo; abdomen pallide cinereum, alas posticas paullo superans; alæ subhyalinæ, subiridescentes, lineis interiore et exteriore purpurascentibus undulatis; anticæ vix acutæ, linea exteriore valde flexa, fascia marginali lata et reniformi angusta purpurascentibus.*

Female. Testaceous, moderately stout, white beneath. Head white about the eyes. Palpi bright fawn-colour, porrect, broad, as long as the head, white beneath; third joint conical, about one-

third of the length of the second. Antennæ slender. Thorax fawn-colour on each side in front. Abdomen pale cinereous, extending a little beyond the hind wings. Legs smooth, slender. Wings moderately broad, slightly hyaline and iridescent; interior and exterior lines purplish, undulating. Fore wings hardly acute; exterior border broadly purplish; reniform mark purplish, narrow; exterior line much bent. Length of the body 5 lines; of the wings 12 lines.

a, *b*. Sarawak, Borneo. In Mr. Saunders' collection.

271. Botys Melonalis.

Fœm. *Alba, sat gracilis, antice ochracea; palpi porrecti, subrostriformes, non longi; abdomen alas posticas perpaullo superans; alæ flavescente-albæ, iridescentes, opacæ, latiusculæ, lineis interiore et exteriore fuscescentibus undulatis sat diffusis; anticæ acutæ, linea exteriore flexa, orbiculari et reniformi fuscis approximatis, costæ dimidio basali ochraceo.*

Female. White, rather slender. Head and fore part of the thorax ochraceous. Palpi ochraceous, porrect, subrostriform, not long; third joint acute, concealed by the hairs. Antennæ slender. Abdomen extending very little beyond the hind wings. Legs smooth. Wings yellowish white, iridescent, opaque, rather broad; interior and exterior lines brownish, undulating, rather diffuse. Fore wings acute; exterior line bent; orbicular and reniform marks brown, approximate; costa ochraceous along half the length from the base. Length of the body 6 lines; of the wings 14 lines.

a. Java. From the East India Company's collection.

272. Botys Habisalis.

Mas et fœm. *Ochracea, sat gracilis; oculi albo cincti; palpi porrecti, rostriformes, subtus nivei, articulo 3o lanceolato; palpi maxillares breves; abdominis segmenta albo marginata; pedes intermedii subincrassati; femora antica testacea; tibiæ anticæ apice fuscæ; alæ pallide luteæ, latiusculæ, lineis interiore et exteriore ochraceis undulatis subobsoletis, fascia marginali lata purpurea; anticæ apice subrotundatæ, costa ochracea.*

Male and female. Ochraceous, rather slender, white beneath. Head white about the eyes. Palpi porrect, rostriform, as long as

the head, pure white beneath; third joint lanceolate, very acute, shorter than the second. Maxillary palpi short. Hind borders of the abdominal segments white. Legs smooth; middle legs slightly incrassated; fore coxæ and fore femora testaceous; fore tibiæ brown towards the tips. Wings pale luteous, rather broad, nearly opaque; interior and exterior lines ochraceous, undulating, very indistinct; a broad purple marginal band; fringe long, full. Fore wings slightly rounded at the tips; costa ochraceous; discal spots as indistinct as the lines. *Male.*—Abdomen extending somewhat beyond the hind wings. *Female.*—Abdomen hardly extending beyond the hind wings. Length of the body 4½—5 lines; of the wings 10 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

273. Botys Polusalis.

Fœm. *Ochracea, gracilis; oculi albo cincti; palpi porrecti, acuti, gracillimi; antennæ vix robustæ; abdomen alas posticas perpaullo superans, segmentis albo marginatis; alæ opacæ, purpurascentes, linea exteriore fusca undulata, linea marginali nigra; anticæ acutæ, linea interiore recta non obliqua; lituris discalibus obsoletis; posticæ spatio apud marginem interiorem albido.*

Female. Ochraceous, slender, white beneath. Head white about the eyes. Palpi porrect, acute, very slender, as long as the head; joints indistinct. Antennæ smooth; hardly stout. Abdomen testaceous, extending very little beyond the hind wings; hind borders of the segments white. Legs smooth; fore legs partly ochraceous. Wings opaque, purplish; exterior line brown, undulating; marginal line black, composed of points in the fore wings, becoming submarginal and continuous in the hind wings; fringe cinereous, brown at the base. Fore wings acute; interior line brown, almost straight and upright; discal marks obsolete. Hind wings with the space adjoining the interior border whitish. Length of the body 4 lines; of the wings 9 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

274. Botys Mœliusalis.

Fœm. *Ochracea, vix robusta; palpi porrecti, breves, lati, obtusi; abdomen alas posticas paullo superans, segmentis albido mar-*

ginatis ; tibiæ anticæ fascia subapicali fusca ; alæ fusco conspersæ, lineis interiore et exteriore nigricantibus subundulatis, linea marginali nigricante ; anticæ aculæ, linea exteriore valde flexa, linea marginali punctulari, orbiculari guttiformi, reniformi lunulata.

Female. Ochraceous, hardly stout, paler beneath. Palpi porrect, short, broad, obtuse ; third joint extremely short. Abdomen extending a little beyond the hind wings ; hind borders of the segments whitish. Legs smooth ; fore tibiæ with a brown subapical band. Wings opaque, speckled with brown, moderately broad ; interior and exterior lines blackish, slightly undulating ; marginal line blackish ; fringe cinereous, interlined with brown near the base. Fore wings acute ; exterior line very much bent ; marginal line composed of points ; orbicular and reniform marks blackish, the former represented by a dot, the latter lunulate ; exterior border moderately oblique. Length of the body 4 lines ; of the wings 10 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

275. Botys Tampiusalis.

Fœm. *Ochracea, sat gracilis ; oculi albo cincti ; palpi fusci, porrecti, breviusculi, latiusculi, subrostriformes, subtus nivei ; palpi maxillares distincti ; pectus antice niveum ; abdomen alas posticas vix superans ; alæ subiridescentes, fusco subconspersæ, lineis interiore et exteriore nigricante purpureis subundulatis ; anticæ acutæ, linea exteriore valde flexa, linea marginali guttulari, orbiculari et reniformi e annulis duobus nigricante-purpureis ; posticæ linea marginali continua.*

Female. Ochraceous, rather slender, white beneath. Head white about the eyes. Palpi brown, porrect, rather short and broad, slightly rostriform, pure white beneath ; third joint concealed by the hairs. Maxillary palpi distinct. Antennæ smooth. Pectus pure white in front. Abdomen hardly extending beyond the hind wings. Legs smooth ; fore tibiæ with brown tips. Wings moderately broad, not long, slightly iridescent and shaded with brown ; interior and exterior lines blackish purple, slightly undulating ; marginal line blackish, composed of dots in the fore wings ; fringe cinereous, interlined with brown. Fore wings acute ; exterior line very much bent ; orbicular and reniform marks represented by two blackish purple ringlets, the latter elongate. Length of the body 4 lines ; of the wings 9 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

276. Botys Melesalis.

Mas. *Cinereo-fusca, gracilis; palpi ascendentes, obtusi, vix lati; palpi maxillares distincti; antennæ valde robustæ; abdomen cylindricum, alas posticas superans; pedes sat validi; alæ breviusculæ, subpurpurascentes, lineis interiore et exteriore fuscescente-purpureis undulatis sat diffusis; anticæ acutæ, linea exteriore valde flexa, orbiculari et reniformi e annulis duobus fuscescente-purpureis.*

Male. Cinereous-brown, slender, cinereous beneath. Palpi obliquely ascending, obtuse, hardly broad; third joint very minute, not one-sixth of the length of the second. Maxillary palpi distinct. Antennæ very stout. Abdomen cylindrical, extending somewhat beyond the hind wings. Legs smooth, rather stout; femora furrowed. Wings rather short, with a purplish tinge: interior and exterior lines brownish purple, undulating, rather diffuse; fringe pale cinereous. Fore wings acute; exterior line much bent; orbicular and reniform marks brownish purple, annuliform; exterior border moderately oblique. Length of the body 4 lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

277. Botys Ilusalis.

Mas. *Albido-cinerea, gracilis; palpi fusci, porrecti, lati, obtusi, subtus albi; palpi maxillares distincti; antennæ squamosæ, breviusculæ, sat validæ; abdomen alas posticas longissime superans; alæ sat angustæ, subiridescentes, subhyalinæ, lineis fuscis rectis, linea submarginali optime determinata; anticæ acutæ, linea exteriore valde flexa apud costam nigricante dilatata, costa basi fuscescente, orbiculari et reniformi e annulis duobus fuscis.*

Male. Whitish cinereous, slender, whitish beneath. Palpi brown, porrect, broad, obtuse, as long as the head, white beneath; third joint very minute, concealed by the hairs. Maxillary palpi distinct. Antennæ squamous, rather short and stout. Abdomen extending very far beyond the hind wings. Legs smooth, slender. Wings rather narrow, slightly iridescent and hyaline, with brown markings; interior and exterior lines straight; submarginal line very distinct; fringe interlined. Fore wings acute; exterior line

very much bent, forming a blackish dot by the costa, which is brownish towards the base; orbicular and reniform marks represented by two ringlets, the latter elongate. Length of the body 4½ lines; of the wings 8 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

278. Botys Hodiusalis.

Fœm. *Cinereo-fusca, gracilis; palpi fusci, porrecti, lati, obtusi, subtus albi; palpi maxillares distineti; antennæ squamosæ, sat robustæ; pectus antice niveum; abdomen alas posticas superans; alæ subopacæ, lineis interiore et exteriore purpurascente-fuscis latiusculis subundulatis; anticæ vix acutæ, linea exteriore valde flexa, striga costali subapicali pallida, orbiculari et reniformi e annulis duobus purpurascente-fuscis.*

Female. Cinereous-brown, slender, whitish beneath. Palpi brown, porrect, broad, obtuse, white beneath, as long as the head; third joint very minute. Maxillary palpi distinct. Antennæ squamous, rather stout. Pectus pure white in front. Abdomen extending rather beyond the hind wings. Legs smooth, slender. Wings shining, moderately broad, nearly opaque; interior and exterior lines purplish brown, slightly undulating, rather broad; fringe cinereous, indistinctly interlined with brown. Fore wings hardly acute; exterior line very much bent; costa with a pale subapical streak, which is interrupted by the exterior line; orbicular and reniform marks represented by two purplish brown ringlets. Length of the body 4 lines; of the wings 8 lines.

a. Sarawak, Borneo. From Mr. Saunders' collection.

279. Botys? Litanalis.

Fœm. *Cinerea, gracilis, fusco subconspersa, subtus albida; palpi ascendentes, breves, graciles; articulus 3us 2o valde brevior; antennæ basi albæ; abdomen alas posticas vix superans; pedes graciles; alæ sat angustæ, lineis subobsoletis, margine exteriore fusco; anticæ acutæ, lituris discalibus subobsoletis, margine exteriore valde obliquo.*

Female. Cinereous, slender, minutely speckled with brown, whitish beneath. Palpi obliquely ascending, short, slender, obtuse; third joint much shorter than the second. Antennæ squamous, white at the base. Abdomen hardly extending beyond the hind wings. Legs smooth, slender. Wings rather narrow; lines very indistinct;

exterior border brown; fringe cinereous, interlined with brown. Fore wings acute; discal marks almost obsolete; exterior border very oblique. Length of the body 2½ lines; of the wings 6 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

280. Botys Hisbonalis.

Fœm. *Cinereo-fusca, gracilis; palpi porrecti, subtus albi; articulus 3us longi-conicus, 2i dimidio non brevior; pedes validi; alæ opacæ, elongatæ, sat angustæ; anticæ acutæ, lineis interiore et exteriore obscure fuscis denticulatis albido marginatis, hac valde flexa, puncto albido et reniformi annuliformi contiguis.*

Female. Cinereous-brown, slender, whitish beneath. Palpi porrect, moderately broad, longer than the head, white beneath; third joint elongate-conical, about half the length of the second. Antennæ smooth. Legs rather stout. Wings elongate, opaque, rather narrow; fringe pale cinereous, interlined with brown towards the base. Fore wings acute; interior and exterior lines dark brown, denticulated, bordered with whitish, the latter much bent; a whitish point adjoining the inner side of the reniform mark, which forms a brown ringlet. Length of the body 3? lines; of the wings 8 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

281. Botys Didasalis.

Mas. *Pallide cinerea, gracilis; palpi porrecti, breves, lati, obtusi; antennæ pubescentes; thoracis latera antica fusca; abdomen alas posticas sat superans, fasciis diffusis fuscis; alæ breviusculæ, fusco subconspersæ, lineis interiore et exteriore fuscis diffusis subundulatis, punctis marginalibus nigris; anticæ acutæ, punctis tribus costalibus subapicalibus nigris, linea exteriore valde flexa, orbiculari punctiformi, reniformi e annulo non bene determinato.*

Male. Pale cinereous, slender, white beneath. Palpi porrect, short, broad, obtuse. Antennæ pubescent. Thorax brown on each side in front. Abdomen with diffuse brown bands, extending rather beyond the hind wings. Legs smooth; fore tibiæ brown towards the tips. Wings rather short, slightly speckled with

brown; interior and exterior lines brown, rather diffuse, slightly undulating; marginal points black. Fore wings acute, with three black points towards the tip of the costa; exterior line much bent; orbicular mark punctiform; reniform represented by an irregular ringlet. Length of the body 3½ lines; of the wings 7 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

282. Botys Sabinusalis.

Fœm. *Subtestaceo-cinerea, gracilis; palpi ascendentes, breves, vix lati, articulo 3o conico minimo; antennæ sat robustæ; abdomen alas posticas superans; alæ elongatæ, vix opacæ, valde iridescentes, lineis interiore et exteriore subobscurioribus valde indistinctis, hac valde flexa; anticæ vix acutæ, reniformi vix conspicua.*

Female. Cinereous, slender, with a slight testaceous tinge, whitish beneath. Palpi ascending, short, hardly broad; third joint conical, not more than one-sixth of the length of the second. Antennæ rather stout. Abdomen extending somewhat beyond the hind wings. Legs smooth, slender. Wings elongate, hardly opaque, very iridescent; interior and exterior lines a little darker than the ground-colour, the latter line much bent. Fore wings hardly acute; reniform mark very indistinct. Length of the body 7 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

283. Botys Jasiusalis.

Fœm. *Cinerea, gracilis; palpi ascendentes, breves, non lati; palpi maxillares distincti; antennæ graciles; abdomen alas posticas paullo superans; alæ subopacæ, vix iridescentes, fusco subconspersæ, lineis interiore et exteriore fuscescentibus undulatis; anticæ acutæ, linea exteriore valde flexa, orbiculari et reniformi parvis fuscis.*

Female. Cinereous, slender, white beneath. Palpi ascending, short, not broad. Maxillary palpi distinct. Antennæ slender. Abdomen extending a little beyond the hind wings. Legs smooth, slender. Wings moderately broad, nearly opaque, hardly iridescent, slightly speckled with brown; interior and exterior lines brownish, undulating. Fore wings acute; exterior line much

bent; orbicular and reniform marks small, brown. Length of the body 4 lines; of the wings 9 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

284. Botys Charesalis.

Fœm. *Cinerea, sat gracilis, antice fusca; palpi ascendentes, subarcuati, non lati, articulo 3o conico; antennæ squamosæ, sat validæ; abdomen alas posticas longe superans; pedes antici fusci, tarsis pallido fasciatis; alæ elongatæ, sat angustæ, lituris fuscis, lineis interiore et exteriore undulatis, punctis marginalibus distinctis; anticæ apice subrotundatæ, costa fuscescente, linea exteriore interrupta valde flexa, orbiculari et reniformi e annulis duobus indeterminatis.*

Female. Cinereous, rather slender, not paler beneath. Head and fore part of the thorax brown. Palpi brown, ascending, slightly curved, not broad; third joint conical, about one-fourth of the length of the second. Antennæ squamous, rather stout. Abdomen extending rather far beyond the hind wings. Legs smooth; fore legs brown; fore tarsi with pale bands. Wings elongate, rather narrow, with brown markings; interior and exterior lines undulating; marginal points distinct; fringe slightly interlined. Fore wings slightly rounded at the tips; costa brownish, except towards the tip; exterior line interrupted, much bent; orbicular and reniform marks represented by two irregular ringlets. Length of the body 5 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

285. Botys Macaralis.

Mas. *Cinerea, gracilis; palpi fusci, porrecti, breves, obtusi, non lati; palpi maxillares distincti; antennæ squamosæ, longæ, graciles; thoracis latera antica fuscescentia; pectus antice niveum; abdomen alas posticas longe superans; alæ angustæ, elongatæ, iridescentes, subhyalinæ, linea exteriore fuscescente recta indistincta perobliqua, fimbria extus alba; anticæ acutæ, linea interiore subobsoleta, costa fuscescente, margine interiore pallido, reniformi fusca minima.*

Male. Cinereous, slender, white beneath. Palpi brown, porrect, short, obtuse, not broad, white beneath; third joint very

minute. Maxillary palpi distinct. Antennæ squamous, long, slender. Thorax brownish on each side in front. Pectus pure white in front. Abdomen extending far beyond the hind wings. Legs slender, smooth. Wings narrow, elongate, iridescent, slightly hyaline; exterior line brownish, straight, indistinct, very oblique; fringe white exteriorly. Fore wings acute; interior line almost obsolete; costa brownish; interior border paler than the wing elsewhere; reniform mark brown, very small. Length of the body 4½ lines; of the wings 9 lines.

a, *b*. Sarawak, Borneo. From Mr. Wallace's collection.

286. Botys Rhipheusalis.

Mas. *Alba, gracillima; palpi fusci, porrecti, breves, lati, subtus nivei, articulo 3o minimo; antennæ pubescentes; thoracis latera antica fusca; abdomen alas posticas superans; tibiæ intermediæ subdilatatæ, anticæ apice nigræ; alæ iridescentes, margine exteriore fuscescente-cinereo, linea exteriore fusca flexa; anticæ vix acutæ, linea interiore fusca, costa cinereo-fusca, orbiculari et reniformi nigricantibus approximatis; posticæ gutta discali nigricante.*

Male. White, very slender. Palpi brown, porrect, short, broad, pure white beneath; third joint extremely minute. Antennæ pubescent. Thorax brown on each side in front. Abdomen extending somewhat beyond the hind wings. Legs smooth; middle tibiæ slightly dilated; fore knees black; fore tibiæ black towards the tips. Wings moderately broad, iridescent, slightly hyaline, brownish cinereous along the exterior border; exterior line brown; costa mostly cinereous-brown; orbicular and reniform marks blackish, approximate. Hind wings with a blackish discal dot. Length of the body 5 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

287. Botys Anialis.

Mas. *Alba, gracillima; palpi porrecti, graciles, breves; articulus 3us longi-conicus, 2i dimidio brevior; antennæ submoniliformes; abdomen alas posticas dimidio superans; alæ angustæ, iridescentes, semihyalinæ, vix flavescentes, linea exteriore purpurascente subrecta valde obliqua, linea marginali æneo-fusca; anticæ apud costam fuscescentes, reniformi purpurascente, margine exteriore perobliquo.*

Male. White, very slender. Palpi porrect, slender, short; third joint elongate-conical, less than half the length of the second. Antennæ squamous, submoniliform. Abdomen extending for half its length beyond the hind wings. Legs smooth, long, slender. Wings narrow, iridescent, semihyaline, with a slight yellowish tinge; exterior line purplish, nearly straight, very oblique; marginal line æneous-brown. Fore wings brownish along the costa; reniform mark purplish; exterior border extremely oblique. Length of the body 5 lines; of the wings 9 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

288. Botys Ochalis.

Mas. *Sordide albida, gracilis; palpi ascendentes, breves, sat graciles, articulo 3o minimo; thorax cyaneo-viridi vittatus; abdomen testaceum, alas posticas longe superans, segmentis albo nigroque marginatis; pedes testacei, anteriores cupreo lineati; alæ elongatæ, iridescentes, subhyalinæ, venis nigricante-fusco marginatis; anticæ macula discali nigra guttam albam includente, lineis duabus submarginalibus nigricante-fuscis, subtus luteo strigatæ; posticæ linea exteriore undulata nigricante-fusca.*

Male. Dingy whitish, slender. Palpi ascending, short, rather slender; third joint extremely short. Antennæ stout. Thorax with metallic bluish green stripes. Abdomen testaceous, extending far beyond the hind wings; hind borders of the segments white and black. Legs smooth, testaceous; anterior legs with cupreous lines. Wings elongate, iridescent, nearly hyaline; veins partly bordered with blackish brown. Fore wings rounded at the tips, with a large black spot, which in front partly includes a white dot; some blackish brown streaks between this spot and two submarginal blackish brown lines; under side streaked with luteous about the discal spot. Hind wings with a blackish brown discal streak and with a deeply undulating exterior blackish brown line. Length of the body 7 lines; of the wings 16 lines.

a. Java. From the East India Company's collection.

289. Botys Trogusalis.

Mas. *Pallide cinerea, gracillima; palpi fusci, ascendentes, breves, vix lati, articulo 3o conico minimo; palpi maxillares*

distincti; antennæ longæ, submoniliformes; thoracis latera antica fusca; abdomen alas posticas dimidio superans; alæ elongatæ, subhyalinæ, lineis interiore et exteriore nigricantibus diffusis undulatis; anticæ apice subrotundatæ, venis nigro nebulosis, costâ et margine interiore testaceis, reniformi e macula magna nigricante albo guttata.

Male. Pale cinereous, very slender. Palpi brown, ascending, short, hardly broad; third joint conical, less than one-sixth of the length of the second. Maxillary palpi distinct. Antennæ long, squamous, submoniliform. Thorax brown on each side in front. Abdomen very much attenuated, extending for half its length beyond the hind wings; apical tuft very long. Legs smooth, long, slender. Wings elongate, nearly hyaline; interior and exterior lines blackish, diffuse, undulating; marginal line blackish. Fore wings slightly rounded at the tips, clouded with black about the veins; costa and interior border mostly testaceous; reniform mark represented by a large blackish spot, which contains a white dot; exterior border very oblique. Length of the body 8 lines; of the wings 16 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

290. Botys Lindusalis.

Mas. *Albida, gracilis; palpi fusci, ascendentes, breves, lati; antennæ longæ, squamosæ; thoracis latera antica fusca; pectus antice niveum; abdomen alas posticas longe superans; pedes longi, graciles; alæ angustæ, elongatæ, semihyalinæ, iridescentes, lineis interiore et exteriore nigricantibus undulatis deviis, linea submarginali nigricante, fimbria fusco interlineata; anticæ apice rotundatæ, subtus luteo bivittatæ, linea exteriore valde flexa strigas duas emittente, reniformi magna nigricante.*

Male. Whitish, slender, nearly allied to *B. Trogusalis*. Palpi brown, ascending, short, broad; third joint conical, very minute. Antennæ long, squamous. Thorax brown on each side in front. Pectus pure white in front. Abdomen extending rather far beyond the hind wings. Legs smooth, long, slender. Wings narrow, elongate, semihyaline, iridescent; interior and exterior lines blackish, undulating, irregular, here and there dilated; submarginal line blackish; fringe interlined with brown. Fore wings rounded at the tips; exterior line very much bent, emitting two streaks inward in front; submarginal line broad, except towards the interior angle; reniform mark large, blackish; under side with two subcostal luteous

stripes which are connected beyond the reniform mark. Length of the body 5 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

291. Botys Phaleasalis

Mas. *Fuscescens, gracilis; palpi ascendentes, breves, subarcuati, non lati, articulo 3o conico; antennæ squamosæ, robustæ; abdomen alas posticas longe superans, segmentis albo marginatis; tarsi fuscescentes, albido fasciati; alæ albidæ, elongatæ, plagis paucis diffusis fuscescentibus, lineis interiore et exteriore undulatis obscure fuscis bene determinatis, linea basali incompleta, lunulis marginalibus fuscis; anticæ vix acutæ, orbiculari et reniformi maculaque postica purpurascente-fuscis.*

Male. Brownish, slender, whitish beneath. Palpi ascending, short, slightly curved, not broad; third joint conical, about one-fourth of the length of the second. Antennæ squamous, stout. Abdomen extending far beyond the hind wings; hind borders of the segments white. Legs smooth, slender; tarsi brownish, with whitish bands. Wings whitish, elongate, rather narrow, with a few patches of brownish speckles; interior and exterior lines dark brown, undulating, very distinct; basal line incomplete, irregular; marginal lunules brown; fringe whitish, interlined near the base. Fore wings hardly acute; reniform and orbicular marks and a spot behind the latter large, purplish brown, their disks with indistinct pale marks. Length of the body 5 lines; of the wings 9 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

292. Botys Camillusalis.

Mas. *Pallide flava, gracilis; palpi fusci, ascendentes, breves, lati, obtusi, subtus nivei; antennæ submoniliformes; thorax antice fuscescente-purpureus; abdomen alas posticas longe superans, apice album ochraceo nigroque varium; tibiæ anticæ apice fuscæ; alæ elongatæ, semihyalinæ, margine exteriore fuscescente-cupreo, linea exteriore fusca obliqua interrupta, fimbria alba fusco interlineata; anticæ apud costam purpureæ, linea interiore et reniformi lunulata fuscis.*

Allied to *B. abjungalis*. *Male.*—Pale yellow, slender, whitish beneath. Palpi brown, ascending, short, broad, very obtuse, pure

white beneath, except towards the tips. Antennæ squamous, submoniliform. Thorax brownish purple in front. Pectus pure white in front. Abdomen extending far beyond the hind wings, white and adorned with ochraceous and with black towards the tip. Legs smooth, long, slender; fore tibiæ brown towards the tips. Wings elongate, iridescent, semihyaline in the disk, broadly brownish cupreous along the exterior border; exterior line brown, oblique, interrupted; fringe white, interlined with brown. Fore wings purple along the costa, interior line complete; reniform distinguished by a brown lunule. Length of the body 6 lines; of the wings 12 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

293. Botys Heranialis.

Fœm. *Pallide lutea, gracilis; palpi purpurei, breves, lati, obtusi, flavo bifasciati, articulo 3o brevissimo; antennæ longæ; thorax antice purpureus; abdomen alas posticas superans, fascia basali purpurea; pedes longi, glabri, ex parte purpurascente-æneï; alæ longæ, angustæ, nitentes, fascia marginali lineisque interiore et exteriore purpureis valde indeterminatis; anticæ acutæ, costa maculisque duabus discalibus purpureis.*

Female. Pale luteous, slender, yellow beneath. Palpi purple, ascending, short, broad, obtuse, yellow at the base, and with a yellow band; third joint very minute. Antennæ long. Thorax purple in front. Abdomen extending somewhat beyond the hind wings, with a purple band near the base. Legs long, smooth, partly purplish æneous. Wings long, narrow, shining; interior and exterior lines and exterior border purple, very irregular, here and there much dilated; marginal line pale; fringe cinereous, brown at the base. Fore wings acute; costa and two discal spots purple; exterior border extremely oblique. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

294. Botys Poltisalis.

Fœm. *Fuscescente-cinerea, vix robusta, subtus nivea; palpi ascendentes, graciles, subarcuati; articulus 3us lanceolatus, 2i dimidio vix brevior; palpi maxillares breves; antennæ graciles, breviusculæ; abdomen flavescens, alas posticas paullo superans; pedes intermedii subdilatati; tibiæ anticæ apice*

fuscæ; alæ amplæ, iridescentes, lineis interiore et exteriore fuscis latiusculis subundulatis, flavo ex parte marginatis; anticæ acutæ, linea exteriore valde flexa, macula discali flava subquadrata; posticæ basi flavæ.

Female. Brownish cinereous, hardly stout, pure white beneath. Palpi obliquely ascending, slender, slightly curved; third joint lanceolate, nearly half the length of the second. Maxillary palpi short, distinct. Antennæ slender, rather short. Abdomen yellowish, extending a little beyond the hind wings. Legs smooth; middle legs slightly dilated; fore tibiæ brown towards the tips. Wings ample, iridescent; interior and exterior lines brown, rather broad, slightly undulating, partly bordered with yellow; fringe pale cinereous. Fore wings acute; exterior line much bent; a yellow subquadrate spot between the brown orbicular and reniform marks; exterior border moderately oblique. Hind wings mostly yellow towards the base. Length of the body 5 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

295. Botys Fabiusalis.

Fœm. *Testacea, vix robusta; palpi fusci, ascendentes, breves, subtus albi, articulo 3o minimo; pedes antici fusco fasciati; alæ elongatæ, lineis interiore et exteriore fasciaque marginali lata purpurascente-cupreis, fimbria cinerea; anticæ apice subrotundatæ, linea exteriore valde flexa, gutta postica basali nigra, orbiculari punctiformi, reniformi obliqua, costa basi fuscescente.*

Female. Testaceous, hardly stout, white beneath. Palpi brown, obliquely ascending, short, moderately broad, white beneath, except towards the tips; third joint extremely minute. Antennæ slender. Legs smooth, slender; fore legs with brown bands. Wings elongate, broadly purplish cupreous along the exterior border; interior and exterior lines of the same hue, irregular; fringe cinereous. Fore wings slightly rounded at the tips; exterior line much bent, partly contiguous to the marginal band; a black dot on the interior border near the base; orbicular mark punctiform; reniform oblique, elongate-subquadrate; costa brownish towards the base. Length of the body 6? lines; of the wings 16 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

296. Botys Sinonalis.

Mas. *Testacea, sat gracilis; palpi fusci, subascendentes, lati, breves, subtus nivei, articulo 3o minimo; antennæ pubescentes; thoracis latera antica fusca; abdomen alas posticas sat superans; alæ elongatæ, iridescentes, fascia marginali lata æneofusca, lineis interiore et exteriore purpurascente-fuscis undulatis interruptis; anticæ acutæ, apud costam fuscescentes, orbiculari puncliformi, reniformi obliqua; posticæ gutta subcostali nigra.*

Male. Testaceous, rather slender, white beneath. Palpi brown, slightly ascending, broad, short, pure white beneath; third joint extremely minute. Antennæ pubescent. Thorax brown on each side in front. Pectus pure white in front. Abdomen extending rather beyond the hind wings. Legs smooth, slender. Wings elongate, iridescent, broadly æneous-brown along the exterior border; interior and exterior lines purplish brown, undulating, interrupted. Fore wings acute, brownish along the costa; orbicular mark punctiform; reniform oblique. Hind wings with the interior line represented by a black dot near the costa. Length of the body 5 lines; of the wings 11 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

297. Botys Boteralis.

Fœm. *Lutea, sat robusta; palpi fusci, ascendentes, breves, lati, subtus albi, articulo 3o parvo conico; abdomen alas posticas vix superans, segmentis albo marginatis; tibiæ intermediæ subinerassatæ, anticæ apice nigræ; alæ lineis interiore et exteriore purpurascentibus guttularibus undulatis, plagis duabus purpureis, una subapicali, altera apud angulum interiorem; anticæ vix acutæ, guttis marginalibus anticis nigris, macula discali rotunda purpurascente.*

Female. Luteous, moderately stout. Palpi brown, ascending, short, broad, white beneath; third joint small, conical. Antennæ slender. Abdomen hardly extending beyond the hind wings; hind borders of the segments white. Legs smooth; middle tibiæ slightly incrassated; fore tibiæ black towards the tips. Wings moderately broad; interior and exterior lines undulating, composed of purplish dots; two purple patches, one subapical, the other near the interior angle, both largest in the fore wings. Fore wings hardly acute,

with some black marks on the costa near the base, and with some black dots along the fore part of the exterior border; reniform mark hidden by a round purplish spot; orbicular mark punctiform. Length of the body 4 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

298. Botys Poeasalis.

Mas. *Ochracea, gracilis, subtus alba, oculi albo cincti; palpi porrecti, acuti, subrostriformes; palpi maxillares brevissimi; antennæ graciles, longiusculæ; abdomen alas posticas longe superans; alæ albidæ, semihyalinæ, argenteo squamosæ, ochraceo trilineatæ, linea submarginali diffusa extus angulosa nigro submarginata, fimbria albida basi flava; anticæ acutæ, linea exteriore flexa, reniformi nigra lunulata.*

Male. Ochraceous, slender, white beneath. Head white about the eyes. Palpi porrect, acute, somewhat rostriform, nearly as long as the head; third joint concealed by the hairs. Maxillary palpi very short. Antennæ smooth, slender, rather long. Abdomen cinereous, extending far beyond the hind wings, marked with ochraceous at the base and at the tip; hind borders of the segments white. Legs smooth, slender. Wings whitish, semihyaline, with brilliant pearly scales, which are mostly along the three ochraceous lines; interior line straight; exterior line bent in the fore wings; submarginal line diffuse, zigzag exteriorly, where it is slightly bordered with black; fringe whitish, yellow at the base. Fore wings acute; reniform mark black, lunulate; exterior border rather oblique. Length of the body 6 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

299. Botys Marisalis.

Mas et fœm. *Cinereo-alba, gracilis; oculi albo cincti; palpi fusci, porrecti, breves, lati, obtusi, subtus albi; thoracis latera antica purpurascente-fusca; pectus antice niveum; abdomen alas posticas superans; alæ breviusculæ, latiusculæ, iridescentes, semihyalinæ, vix flavescentes, lineis interiore et exteriore fuscis rectis, fascia marginali lato purpurascente-cinerea; anticæ acutæ, linea exteriore valde flexa, costa purpurascente-fusca, reniformi fusca lunulata.*

Male and female. Cinereous-white, slender. Head white about the eyes. Palpi brown, porrect, short, broad, obtuse, white beneath; third joint extremely minute. Antennæ squamous. Thorax purplish brown on each side in front. Pectus pure white in front. Abdomen extending rather beyond the hind wings. Legs smooth, slender. Wings rather short and broad, iridescent, semihyaline, with a slight yellowish tinge, broadly purplish cinereous along the exterior border; interior and exterior lines brown, straight. Fore wings acute; exterior line much bent; costa purplish brown; reniform mark brown, lunulate. Hind wings with the exterior line abbreviated hindward. *Male.* — Antennæ stout. Fore tibiæ tufted. *Female.*—Antennæ slender. Length of the body 3—3½ lines; of the wings 6½—7 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.
b. Sydney. From Mr. Lambert's collection.

300. Botys Trebiusalis.

Fœm. *Purpurascente-cinerea, gracilis, subtus nivea; oculi albo cincti; palpi porrecti, breves, lati, obtusi, articulo 3o minimo; tibiæ anticæ apice fuscæ; alæ flavescentes, iridescentes, semihyalinæ, dimidio fere exteriore purpurascente-cinereo, lineis interiore et exteriore fuscis obliquis, fimbria alba fusco interlineata basi flavescente; anticæ acutæ, linea exteriore valde flexa, reniformi sublunulata.*

Female. Purplish cinereous, slender, shining, white beneath. Head white about the eyes. Palpi porrect, short, broad, obtuse; third joint extremely small. Antennæ squamous. Abdomen pale. Legs smooth, slender; fore tibiæ brown towards the tips. Wings yellowish, iridescent, semihyaline, moderately broad; nearly half the exterior part purplish cinereous; interior and exterior lines brown, oblique; fringe white, interlined with brown near the base, which is yellowish. Fore wings acute; exterior line much bent; reniform mark slightly lunulate; exterior border moderately oblique. Length of the body 3 lines; of the wings 7 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

301. Botys Œaxalis.

Mas. *Cinereo-purpurea, gracilis, subtus alba; palpi porrecti, breves, non lati, articulo 3o minimo; antennæ pubescentes;*

abdomen alas posticas superans; pedes glabri, graciles; alæ flavæ, iridescentes, semihyalinæ, non longæ, margine exteriore late chalybeo, punctis marginalibus flavis, fimbria flavo varia, lineis interiore et exteriore fuscis; anticæ acutæ, apud costam purpurascentes, costa flava apicem versus nigro notata, reniformi annulari.

Male. Cinereous-purple, slender, white beneath. Palpi porrect, short, not broad; third joint extremely minute. Antennæ pubescent. Abdomen testaceous, extending rather beyond the hind wings. Legs smooth, slender. Wings yellow, iridescent, semihyaline, not long; exterior border broadly chalybeous, with yellow marginal points; fringe partly yellow; interior and exterior lines brown. Fore wings acute, purplish along the costa, which is mostly yellow, with some black exterior marks; exterior line much bent; reniform mark forming an incomplete ringlet. Length of the body 3½ lines; of the wings 7½ lines.

Sarawak, Borneo. In Mr. Saunders' collection.

302. Botys Varanesalis.

Mas. *Lutea, gracillima; palpi fusci, ascendentes, breviusculi, sat graciles, subtus albi, articulo 3o minimo; antennæ sat validæ; thorax fusco trivittatus; abdomen ochraceum, valde attenuatum, alas posticas dimidio superans, triente apicali alba vittis duabus nigricantibus, segmentis argenteo marginatis; alæ angustæ, fusco late marginatæ; anticæ apice subrotundatæ, costa lineisque quatuor postice approximatis fuscis; posticæ lineis tribus fuscis, fascia marginali postice abbreviata.*

Male. Luteous, very slender, white beneath. Palpi brown, obliquely ascending, rather short and slender, white beneath; third joint extremely minute. Antennæ rather stout. Thorax with three brown stripes. Abdomen ochraceous, much attenuated, extending for half its length beyond the hind wings; apical third part white, slightly curved upward, with two blackish stripes; hind borders of the segments silvery white. Legs smooth, slender, long. Wings narrow, broadly bordered with brown. Fore wings slightly rounded at the tips, irregularly brown along most of the costa, from whence some brown lines converge towards the interior border; exterior border extremely oblique. Hind wings with three brown lines; marginal band abbreviated towards the interior angle. Length of the body 6 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

303. Botys Taphiusalis.

Fœm. *Rufescente-ferruginea, sat gracilis, subtus nivea; palpi porrecti, graciles; articulus 3us longi-conicus, 2i triente brevior; abdomen alas posticas non superans; pedes ferrugineo fasciati; alæ albæ, lineis nonnullis transversis deviis fuscis, spatiis intermediis ex parte fimbriaque ferrugineis; anticæ acutæ, apud costam ferrugineæ.*

Female. Reddish ferruginous, rather slender, shining white beneath. Palpi porrect, slender, not long; third joint elongate-conical, less than one-third of the length of the second. Antennæ smooth, stout. Abdomen pale fawn-colour, not extending beyond the hind wings. Legs smooth, with ferruginous bands. Wings white, moderately broad, with several transverse irregular brown lines; the spaces between the latter partly ferruginous; fringe ferruginous. Fore wings acute, ferruginous along the costa. Length of the body 2½ lines; of the wings 7 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Australia.

A. Alæ subtus non nigro fasciatæ.
  A. Alæ non albido hyalinæ.
    a. Abdomen non longissimum.
      a. Statura non robusta.
        i. Alæ annulis nullis discalibus.
          * Alæ lineis non rectis.
            † Alæ posticæ non lineatæ. - furnacealis, *Guen.*
            †† Alæ posticæ lineatæ.
              ‡ Alæ flavescentes.
                § Abdomen bipunctatum. Pigresalis, *Walk.*
                §§ Abdomen non punctatum. Pompusalis, *Walk.*
              ‡‡ Alæ non flavescentes.
                § Alæ pallidæ. - Piasusalis, *Walk.*
                §§ Alæ obscuræ.
                  × Alæ anticæ linea exteriore valde flexa. - Pharaxalis, *Walk.*
                  ×× Alæ anticæ linea exteriore non valde flexa. - Pharisalis, *Walk.*

** Alæ lineis rectis. - - Nurscialis, *Walk.*
ii. Alæ anticæ annulis discalibus. - Otysalis, *Walk.*
b. Statura robusta. - - - Lucusalis, *Walk.*
B. Abdomen longissimum. - - - Mannusalis, *Walk.*
B. Alæ albido hyalinæ. - . - Phanusalis, *Walk.*
B. Alæ subtus nigro fasciatæ. - - - Ptousalis, *Walk.*

Group 1.

Furnacealis.

Group 2.

Lucusalis.

Group 3.

Pompusalis, Otysalis, Pigresalis.

Group 4.

Nurscialis.

Group 5.

Piasualis, Pharaxalis, Pharisalis.

Group 6.

Mannusalis.

Group 7.

Phanasalis.

Group 8.

Ptousalis.

304. Botys furnacealis.

Fœm. B. lupulinali *simillima; alæ anticæ saturatiores, angustiores, magis acutæ, vitta costali latiore rufescente, macula discali rufescente, reniformi producta vaga; posticæ pallide ochraceæ, non lineatæ.*

Botys furnacealis, *Guen. Delt. et Pyral.* 332, 368.

Australia.

Var.? Fœm. *Pallide cervina, sat gracilis; palpi porrecti, subtus albi; pectus antice niveum; alæ latiusculæ; anticæ acutæ, luteæ, cervino conspersæ, costa cervina, lineis interiore et exteriore cervinis denticulatis, hac flexa; posticæ pallidæ.*

Var.? Female. Pale fawn-colour, rather slender, whitish beneath. Palpi porrect, moderately broad, as long as the head, white beneath; third joint conical, concealed by the hairs. Antennæ stout. Pectus pure white in front. Abdomen pale, hardly extending beyond the hind wings. Legs smooth; middle tibiæ slightly dilated; fore tibiæ slightly tufted. Wings rather broad. Fore wings pale luteous, acute, partly blotched or speckled with fawn-colour; costa fawn-colour; interior and exterior lines fawn-colour, denticulated, the latter bent. Hind wings pale. Length of the body 4½—5 lines; of the wings 12—13 lines.

a, b. Moreton Bay. From Mr. Diggles' collection.

305. Botys Locusalis.

Mas. *Albido-testacea, robusta; palpi fusci, porrecti, longi, latiusculi, subtus pallidi, articulo 3o parvo; palpi maxillares distincti; antennæ robustæ; abdomen alas posticas superans, fusco fasciatum et trivittatum; pedes antici fusco fasciati; alæ amplæ, lituris ferrugineis, linea exteriore valde flexa; anticæ acutæ, costa ferruginea, lineis basali, interiore et submarginali distinctis, reniformi elongata pallido strigata; posticæ linea submarginali.*

Male. Whitish testaceous, very stout. Palpi brown, porrect, long, rather broad, whitish testaceous beneath; third joint minute, concealed by the hairs. Maxillary palpi distinct. Antennæ very stout. Thorax brown on each side in front, and with a slender brown transverse line. Abdomen extending rather beyond the hind wings, with three brown stripes, and with brown bands on the fore borders of the segments. Legs stout, smooth; fore tibiæ and fore tarsi with brown bands. Wings ample, with ferruginous markings; exterior line extremely bent, with a streak between its flexure and the interior angle. Fore wings hardly acute; costa ferruginous; basal, interior and submarginal lines distinct, the latter upright; reniform mark elongate, including a pale line. Hind wings with a submarginal line. Length of the body 8 lines; of the wings 20 lines.

a. Australia. From Mr. Stevens' collection.

306. Botys Pompusalis.[1]

Mas et fœm. *Flava, sat gracilis; palpi ascendentes, arcuati, graciles, articulo 3o parvo; thorax antice nigro trimaculatus; abdomen apice fuscum, segmentis albo marginatis; alæ iridescentes, lineis interiore et exteriore margineque fuscis; anticæ vix acutæ, macula basali nigra, reniformi longiquadrato, linea exteriore valde flexa.* Mas.—*Palpi fusco notati; antennæ validæ; abdomen alas posticas longe superans.* Fœm.—*Antennæ graciles; abdomen alas posticas vix superans.*

Male and female. Yellow, rather slender, shining white beneath. Palpi ascending, curved, slender; third joint conical, not one-fourth of the length of the second. Thorax with three black spots in front. Abdomen brown above at the tip; hind borders of the segments white. Legs smooth; fore tibiæ with brown tips. Wings moderately broad, iridescent, nearly opaque, irregularly brown along the exterior border; interior and exterior lines brown, the former interrupted, the latter partly connected with the brown marginal space; fringe cinereous. Fore wings hardly acute, with a black basal spot; orbicular mark punctiform; reniform elongate-quadrate; exterior line very much bent. *Male.*—Palpi marked with brown. Antennæ stout. Abdomen extending far beyond the hind wings. *Female.*—Antennæ slender. Abdomen hardly extending beyond the hind wings. Length of the body 5—6 lines; of the wings 12 lines.

a, b. Moreton Bay. From Mr. Diggles' collection.

307. Botys Otysalis.

Fœm. *Albido-testacea, gracilis; palpi porrecti, breves, sat graciles, fusco binotati, articulo 3o brevissimo; palpi maxillares distincti; abdomen alas posticas paullo superans; alæ latiusculæ, lituris fuscis, lineis interiore et exteriore integris, linea submarginali denticulata, venis submarginalibus fusco marginatis, linea marginali distincta; anticæ acutæ, orbiculari et reniformi e annulis duobus magnis.*

Female. Whitish testaceous, slender. Palpi porrect, short, rather slender; first and second joints with a brown spot on each outer side; third conical, very minute. Maxillary palpi distinct.

Abdomen extending a little beyond the hind wings. Legs smooth; fore tibiæ brown towards the tips; fore tarsi with a brown band. Wings rather broad, with brown markings; interior and exterior lines complete; submarginal line denticulated; marginal line distinct; the veins between these two lines bordered with brown. Fore wings acute, with a basal line; exterior line much bent; orbicular and reniform marks represented by two large ringlets, the latter elongate. Length of the body 6 lines; of the wings 15 lines.

a. Moreton Bay. From Mr. Diggles' collection.

308. Botys Pigresalis.

Fœm. *Pallide lutea, sat gracilis; palpi fusci, porrecti, breves, non lati, subtus nivei, articulo 3o brevissimo; thoracis latera antica fusca; pectus niveum; abdomen alas posticas paullo superans, nigro bipunctatum; alæ linea exteriore purpurea flexa, margine exteriore purpurascente; anticæ acutæ, costa basi lineaque interiore incompleta purpureis, gutta postica basali nigra, reniformi lunulata.*

Female. Pale luteous, rather slender. Palpi brown, porrect, short, not broad, pure white beneath; third joint very minute. Thorax brown on each side in front. Pectus pure white in front. Abdomen extending a little beyond the hind wings, with a black point on each side before the middle. Legs smooth. Wings moderately long and broad; exterior line purple, bent; exterior border purplish. Fore wings acute; costa purple towards the base; interior line purple, incomplete; a black dot near the base of the interior border; orbicular mark forming a dot; reniform lunulate. Length of the body 3 lines; of the wings 9 lines.

a. Moreton Bay. From Mr. Diggles' collection.

309. Botys Nurscialis.

Mas. *Flava, gracilis; caput fusco bilineatum; palpi fusci, porrecti, breves, lati, subtus flavi; thoracis latera antica fusca; abdomen apice fuscum albo bivittatum, segmentis fusco alboque marginatis; femora anteriora fusco vittata; alæ lineis exteriore et submarginali fuscis rectis obliquis, hac diffusa; anticæ acutæ, linea interiore erecta costaque fuscis, fasciculo costali iridescente.*

Male. Yellow, slender, paler beneath. Head with two brown lines. Palpi brown, porrect, short, broad; pale yellow beneath;

third joint very minute, concealed by the hairs. Antennæ squamous. Thorax brown on each side in front. Abdomen extending rather beyond the hind wings; hind borders of the segments brown and white; tip brown, with two white stripes. Legs smooth; anterior femora striped with brown; fore tibiæ brown, tufted. Wings moderately broad; exterior and submarginal lines brown, straight, oblique, the latter diffuse; marginal line brown; fringe whitish, interlined with brown. Fore wings acute, with an upright interior brown line; costa brown, with an iridescent tuft before the middle. Hind wings with the exterior and submarginal lines abbreviated hindward; interior line nearly obsolete. Length of the body 4 lines; of the wings 8 lines.

a—c. Moreton Bay. From Mr. Diggles' collection.
d. Sydney. From Mr. Lambert's collection.

310. Botys Piasusalis.

Mas. *Testaceo-alba, gracilis; palpi fusci, ascendentes, arcuati, lati, breves, subtus basi albi, articulo 3o brevissimo; antennæ breviusculæ; thoracis latera antica fuscescentia; abdomen alas posticas longe superans; alæ elongatæ, linea exteriore purpurea valde undulata extus albido diffuse marginata; anticæ acutæ, linea interiore et costa basali purpureis, orbiculari punctiformi, reniformi lunulata.*

Male. Testaceous-white, slender, shining white beneath. Palpi brown, ascending, curved, broad, short, white beneath towards the base; third joint extremely minute. Antennæ rather short. Thorax brownish on each side in front. Abdomen extending far beyond the hind wings. Legs smooth, slender; fore tibiæ brown towards the tips. Wings elongate, slightly cinereous towards the exterior border; exterior line purple, very undulating, diffusedly bordered with whitish on the outer side. Fore wings acute; interior line and the costa from thence to the base purple; punctiform orbicular mark and lunulate reniform mark purple. Length of the body 7 lines; of the wings 14 lines.

a. Moreton Bay. From Mr. Diggles' collection.

311. Botys Pharaxalis.

Fœm. *Fusca, gracilis, subtus albida; palpi porrecti, breves, lati, subtus nivei; palpi maxillares distincti; pectus antice*

niveum; abdominis segmenta albido marginata; alæ cinereo-fuscæ, subpurpurascentes, lineis interiore et exteriore nigricantibus undulatis vix distinctis; anticæ acutæ, orbiculari et reniformi nigricantibus parvis.

Female. Brown, slender, whitish beneath. Palpi porrect, short, broad, pure white beneath; third joint very minute, concealed by the hairs. Maxillary palpi distinct. Antennæ slender. Pectus pure white in front. Abdomen extending very little beyond the hind wings; hind borders of the segments whitish. Legs smooth. Wings cinereous-brown, moderately broad, with a slight purplish tinge; interior and exterior lines blackish, undulating, rather indistinct; exterior border brown, with a pale marginal line; fringe whitish, brown at the base. Fore wings acute; orbicular and reniform marks blackish; the former punctiform, a little smaller than the latter. Length of the body 5 lines; of the wings 12 lines.

a. Sydney. From Mr. Lambert's collection.
b—e. Moreton Bay. From Mr. Diggles' collection.

312. Botys Pharisalis.

Fœm. *Pallide cinereo-fusca, sat gracilis; palpi fusci, porrecti, latiusculi, non longi, subtus nivei; pectus antice niveum; alæ breviusculæ, sat angustæ, lineis interiore et exteriore fuscis denticulatis, anticæ acutæ, linea exteriore flexa, reniformi lunulata.*

Female. Pale cinereous-brown, rather slender; whitish beneath. Palpi brown, porrect, rather broad, not long, pure white beneath; third joint conical, concealed by the hairs. Antennæ slender. Pectus pure white in front. Abdomen hardly extending beyond the hind wings. Legs smooth, slender. Wings rather short and narrow; interior and exterior lines brown, denticulated; fringe cinereous. Fore wings acute; punctiform, orbicular and lunulate reniform marks brown; exterior line bent. Length of the body 3 lines; of the wings 8 lines.

a. Moreton Bay. From Mr. Diggles' collection.

313. Botys Mannusalis.

Mas. *Cinerea, gracillima; palpi ascendentes, arcuati, breves, graciles, articulo 3o minimo; antennæ longæ, graciles; thoracis latera antica fusca; abdomen longissimum, alas posticas*

dimidio superans; pedes longi, graciles; alæ elongatæ, semihyalinæ, iridescentes, linea exteriore fusca indistincta perobliqua; anticæ acutæ, apud costam fuscescentes, lituris discalibus subobsoletis.

Male. Cinereous, very slender, whitish beneath, nearly allied to *B. Macaralis*. Palpi ascending, curved, short, slender, white beneath towards the base; third joint very minute. Antennæ long, slender, squamous. Thorax brown on each side in front. Abdomen very long, extending for half its length beyond the hind wings; apical tuft long. Legs long, smooth, slender. Wings elongate, semihyaline, very iridescent, rather narrow; exterior line brown, indistinct, very oblique. Fore wings acute, brownish along the costa; discal marks almost obsolete; exterior border extremely oblique. Length of the body 8 lines; of the wings 14 lines.

a, b. Moreton Bay. From Mr. Diggles' collection.

314. Botys Phanasalis.

Mas. *Cinerea, vix robusta; palpi albidi, porrecti, lati, supra fusci, lateribus fusco lineatis, articulo 3o minimo; palpi maxillares distincti; antennæ sat graciles, basi subcornutæ; abdomen alas posticas longe superans, apicem versus nigrum; alæ elongatæ, fere hyalinæ, valde iridescentes; anticæ acutæ, fasciis quatuor testaceis fusco marginatis, orbiculari parva fusca, reniformi magna testacea fusco marginata; posticæ fasciis subobsoletis.*

Male. Cinereous, hardly stout, whitish beneath. Palpi brown, porrect, broad, not long, whitish beneath and on each side, where there is a brown line; third joint very minute, concealed by the hairs. Maxillary palpi distinct. Antennæ rather slender, with an elongate-conical appendage at the base. Abdomen extending far beyond the hind wings, black above towards the tip, which is white. Legs smooth, slender. Wings elongate, very iridescent, nearly hyaline; fringe white, slightly interlined with brown. Fore wings acute, with four testaceous brown-bordered bands, of which the third is bent; orbicular mark brown, small, approximate to the reniform, which is large, testaceous, and brown-bordered. Hind wings with some traces of similar bands. Length of the body 7 lines; of the wings 14 lines.

a. Moreton Bay. Presented by — Gibbons, Esq.

315. Botys Prousalis.

Mas. *Lutea, gracilis, subtus cervina; palpi cervini, porrecti, non lati, capite longiores, subtus basi nivei; palpi maxillares breves, distincti; antennæ subpectinatæ; abdomen lineis duabus ventralibus diffusis nigris; tibiæ anticæ femoraque fusca; alæ subtus fascia perobliqua nigra; anticæ ochraceæ, acutæ, costa dimidio basali nigro.*

Male. Luteous, slender, fawn-colour beneath. Palpi fawn-colour, porrect, pilose, not broad, longer than the head, white beneath towards the base; third joint acute, concealed by the hairs. Maxillary palpi short, distinct. Antennæ minutely pectinated. Abdomen extending a little beyond the hind wings, with two diffuse black lines beneath. Legs smooth; femora and fore tibiæ brown. Wings moderately broad, opaque; lines obsolete; under side with a black very oblique band on each wing. Fore wings ochraceous, acute; costa black for half the length from the base; fringe cinereous, black towards the base, except by the interior angle. Hind wings with a whitish fringe. Length of the body 4 lines; of the wings 10 lines.

a. Sydney. From Mr. Diggles' collection.

Country unknown.

A. Statura valde robusta. - - - - Thoosalis, *Walk.*
B. Statura non valde robusta.
A. Alæ anticæ macula nulla postica.
a. Alæ anticæ spatio medio non obscuriore.
a. Alæ fascia nulla submarginali.
i. Alæ pallidæ.
* Alæ anticæ reniformi albo non strigata.
† Alæ margine exteriore non obscuro.
‡ Alæ non cinereæ.
§ Alæ latiusculæ.
× Alæ anticæ linea exteriore valde flexa.
Thestealis, *Walk.*
×× Alæ anticæ linea exteriore non flexa.
Lacoalis, *Walk.*
§§ Alæ sat angustæ.
× Alæ anticæ apice obscuræ.
Memmialis, *Walk.*
×× Alæ anticæ plaga apicali.
Ogmiusalis, *Walk.*

‡‡ Alæ cinereæ. - - Ofellusalis, *Walk.*
†† Alæ margine exteriore obscuro.
‡ Alæ anticæ margine exteriore non perobliquo. Tædialis, *Walk.*
‡‡ Alæ anticæ margine exteriore perobliquo. Mettiusalis, *Walk.*
** Alæ anticæ reniformi albo strigata. Mestoralis, *Walk.*
ii. Alæ obscuræ.
* Alæ anticæ maculis discalibus vitreis. Orphnealis, *Walk.*
** Alæ maculis nullis vitreis.
† Alæ anticæ reniformi non alba. Onophasalis, *Walk.*
†† Alæ anticæ reniformi albo strigata. Thyasalis, *Walk.*
b. Alæ fascia submarginali. - Onythesalis, *Walk.*
B. Alæ anticæ spatio medio obscuriore. - Thisoalis, *Walk.*
B. Alæ anticæ macula postica. - Simmialis, *Walk.*

Group 1.

Mestoralis, Ogmiusalis, Memmialis, Mettiusalis, Tædialis, Ofellusalis.

Group 2.

Thestealis, Lacoalis.

Group 3.

Onythesalis.

Group 4.

Thyasalis.

Group 5.

Onophasalis, Simmialis, Orphnealis, Thisoalis.

Group 6.

Thoosalis.

316. Botys Mestoralis.

Fœm. *Flava, sat gracilis; oculi albo cincti; palpi cervini, porrecti, breves, lati, subtus nivei; thoracis latera antica cervina; pectus antice niveum cervino fasciatum; pedes antici cervini albo fasciati; alæ elongatæ, iridescentes, semihyalinæ, lineis fuscescentibus indistinctis, linea exteriore valde flexa, lineis*

submarginali et marginali rectis; anticæ vix acutæ, reniformi fusca albo strigata.

Female. Yellow, rather slender, white beneath. Head white about the eyes. Palpi fawn-colour, porrect, short, broad, pure white beneath; third joint very small. Antennæ slender. Thorax fawn-colour on each side in front. Pectus pure white in front, with a fawn-coloured band. Legs smooth, slender; fore tibiæ and fore tarsi fawn-colour, with white bands. Wings elongate, iridescent, semihyaline; lines brownish, very indistinct; exterior line much bent; submarginal and marginal lines straight; fringe white, cinereous towards the base. Fore wings hardly acute; orbicular mark brown, punctiform; reniform brown, elongate, including a white streak; exterior border very oblique. Length of the body 6? lines; of the wings 16 lines.

a. ———? Presented by E. Doubleday, Esq.

317. Botys Ogmiusalis.

Mas. *Flava, gracilis, subtus alba; palpi fusci, ascendentes, arcuati, sat graciles; articulus 3us lanceolatus, 2i dimidio vix brevior; antennæ subpubescentes; thorax antice purpureus; abdomen alas posticas vix superans, viridi biguttatum; alæ elongatæ, semihyalinæ, iridescentes, lineis interiore et exteriore fuscescente-cyaneis denticulatis incompletis; anticæ acutæ, costa basali plagaque quadrata marginali purpurascente-cyaneis, reniformi elongata pallido strigata.*

Male. Yellow, slender, white beneath. Palpi brown, ascending, curved, rather slender, white beneath towards the base; third joint lanceolate, nearly half the length of the second. Antennæ very minutely pubescent. Thorax purple in front. Abdomen hardly extending beyond the hind wings, with a green metallic dot on each side near the base. Legs smooth, slender; fore tibiæ brown towards the tips. Wings elongate, semihyaline, very iridescent; interior and exterior lines brownish blue, denticulated, incomplete. Fore wings acute, purplish blue along the costa from the base to the exterior line, and with a purplish blue quadrate subcostal patch between the exterior line and the exterior border; orbicular mark forming a dot; reniform elongate, with a pale disk. Length of the body 6 lines; of the wings 14 lines.

a. ———? Presented by E. Doubleday, Esq.

318. Botys Memmialis.

Mas. *Flava, gracilis, subtus alba; caput fuscum; palpi fusci, ascendentes, subarcuati, non lati; antennæ subpubescentes, basi incrassatæ et incisæ; thoracis latera antica fusca; alæ longæ, iridescentes, semihyalinæ, sat angustæ, linea exteriore fusca undulata; anticæ acutæ, costa exteriore, apice lineaque interiore fuscis, orbiculari et reniformi subquadratis; posticæ macula postica fusca subquadrata.*

Male. Yellow, slender, white beneath. Head brown above. Palpi brown, ascending, slightly curved, not long nor broad, white beneath, except towards the tips; third joint extremely short. Antennæ stout, minutely pubescent, incrassated and notched at the base. Thorax brown on each side in front. Legs smooth; middle tibiæ slightly dilated; fore tibiæ brown for half the length from their tips, slightly tufted. Wings long, iridescent, semihyaline, rather narrow; exterior line brown, slight, undulating. Fore wings acute; costa exteriorly and tips brown; interior line brown, incomplete; orbicular and reniform marks brown, subquadrate, the latter much larger than the former; exterior border very oblique. Hind wings with a brown subquadrate on the interior disk. Length of the body 6? lines; of the wings 14 lines.

a, *b*. ——? Presented by E. Doubleday, Esq.

319. Botys Mettiusalis.

Mas. *Flava, gracilis, subtus albida; caput supra thoracisque latera antica cervina; palpi cervini, porrecti, breves, non lati; antennæ longiusculæ, subpubescentes; abdomen alas posticas paullo superans; alæ longæ, angustæ, margine exteriore purpurascente-cinereo, lineis interiore et exteriore fuscis undulatis incompletis; anticæ vix acutæ, orbiculari magna rotunda, reniformi subquadrata fusco marginata.*

Male. Yellow, slender, whitish beneath. Head above and sides of the thorax in front fawn-colour. Palpi fawn-colour, porrect, short, not broad; third joint extremely short. Antennæ rather long, very minutely pubescent. Abdomen extending a little beyond the hind wings. Legs smooth; middle tibiæ slightly incrassated. Wings long, narrow, purplish cinereous along the exterior border; interior and exterior lines brown, undulating, incomplete. Fore wings hardly acute, fawn-colour along the costa; orbicular and

reniform marks fawn-colour; the former round, large; the latter subquadrate, bordered with brown on each side; exterior border extremely oblique. Length of the body 5 lines; of the wings 14 lines.

a, b. ———?

320. Botys Tædialis.

Mas et fœm. *Flava, gracilis; palpi fusci, porrecti, breves, lati, subtus nivei; thorax antice purpurascente-cinereus; pectus antice niveum; abdominis segmenta albo marginata; alæ margine exteriore lineisque interiore et exteriore purpurascente-cinereis; anticæ acutæ, costa purpurascente-cinerea, linea exteriore flexa, orbiculari et reniformi subquadratis purpurascente-cinereis.* Mas.—*Antennæ validæ; abdomen alas posticas sat superans.* Fœm.—*Antennæ graciles.*

Male and female. Yellow, slender, white beneath. Palpi brown, porrect, short, broad, pure white beneath; third joint extremely minute. Thorax purplish cinereous in front. Pectus pure white in front. Hind borders of the abdominal segments white. Legs smooth; fore femora and tips of fore tibiæ brown. Wings moderately broad, purplish cinereous along the exterior border; interior and exterior lines of the same hue, the latter denticulated; fringe pale cinereous, interlined with pale brownish. Fore wings acute; costa purplish cinereous; exterior line much bent; orbicular and reniform marks purplish cinereous, subquadrate. *Male.*—Antennæ rather stout. Abdomen extending rather beyond the hind wings. *Female.*—Antennæ slender. Abdomen hardly extending beyond the hind wings. Length of the body 3½—5 lines; of the wings 8—9½ lines.

a, b. ———? From Mr. Milne's collection.

321. Botys Ofellusalis.

Testaceo-albida, gracilis; palpi fusci, declives, breves, latiusculi, subtus albi; antennæ longiusculæ; pectus antice niveum; alæ lineis interiore et exteriore fuscis subundulatis; anticæ vix acutæ, costa basi fusca, linea exteriore valde flexa, orbiculari et reniformi e annulis duobus elongatis fuscis.

Testaceous-whitish, slender. Palpi brown, slightly decumbent, short, rather broad, white beneath; third joint acutely conical, not more than one-third of the length of the second. Antennæ rather

long. Pectus pure white in front. Legs smooth. Wings moderately broad, hardly iridescent; interior and exterior lines brown, slightly undulating; marginal line brown, distinct; fringe whitish, long, full, pale brown towards the base: Fore wings hardly acute; costa brown towards the base; exterior line extremely bent, the intermediate part obsolete; orbicular and reniform marks represented by two irregular elongated brown ringlets; exterior border moderately oblique. Length of the body 4? lines; of the wings 10 lines.

a. ———?

322. Botys Thestealis.

Fœm. *Ochracea, gracilis, subtus alba; palpi fusci, porrecti, breves, lati, subtus nivei; palpi maxillares graciles, distincti; abdominis segmenta albido marginata; alæ amplæ, iridescentes, apud discos albidæ semihyalinæ, lituris fuscescente-purpureis, lineis interiore et exteriore undulatis, linea submarginali denticulata; anticæ acutæ, linea exteriore valde flexa, orbiculari et reniformi annularibus.*

Female. Ochraceous, slender, white beneath. Palpi brown, porrect, short, broad, pure white beneath; third joint extremely minute. Maxillary palpi slender, distinct. Antennæ smooth. Abdomen extending a little beyond the hind wings; hind borders of the segments and tips whitish. Legs smooth; fore tibiæ and fore tarsi with brown tips. Wings ample, iridescent, mostly whitish and semihyaline in the disks, with brownish purple markings; interior and exterior lines undulating, the former incomplete; submarginal line denticulated; fringe yellowish white. Fore wings acute; exterior line much bent; orbicular and reniform marks represented by two ringlets, the latter elongate and oblique. Length of the body 7 lines; of the wings 16 lines.

a. ———?

323. Botys Lacoalis.

Mas. *Lutea, sat gracilis; palpi ferruginei, subascendentes, breves, lati, subtus nivei; antennæ pubescentes; thoracis latera antica ferruginea; pectus niveum; abdomen albidum, luteo fasciatum, subtus chalybæum; pedes antici fusco cincti; alæ latæ, lineis tribus rufescentibus undulatis; anticæ vix acutæ, basi, linea basali, orbiculari et reniformi rufescentibus, costa subochracea.*

Male. Luteous, rather slender, white beneath. Palpi ferruginous, slightly ascending, short, broad, pure white beneath; third joint extremely short. Antennæ stout, pubescent. Thorax ferruginous on each side in front. Pectus pure white. Abdomen whitish with luteous bands, extending a little beyond the hind wings; under side chalybeous. Legs smooth; fore femora and fore tibiæ brown, except towards the base; joints of the fore tarsi with brown tips. Wings broad, not long; interior, exterior and submarginal lines reddish, undulating; fringe whitish. Fore wings hardly acute; base, basal line, punctiform orbicular mark and narrow reniform mark reddish; costa slightly ochraceous; exterior border slightly oblique. Length of the body 6 lines; of the wings 14 lines.

a. ——— ?

324. Botys Onythesalis.

Mas et fœm. *Lutea, gracilis; oculi albo cincti; palpi cervini, porrecti, lati, rostriformes, subtus albi; palpi maxillares distincti; pectus antice niveum; abdominis segmenta albido marginata; alæ fascia lata submarginali lineaque exteriore purpurascente-rufis, linea exteriore flexa, spatio intermedio ex parte purpurascente-rufo.*

Male and female. Luteous, slender, whitish beneath. Head white about the eyes. Palpi fawn-colour, porrect, broad, rostriform, not long, white beneath; third joint small, acutely conical. Maxillary palpi distinct. Antennæ smooth. Pectus pure white in front. Hind borders of the abdominal segments whitish. Legs smooth; fore tibiæ brown towards the tips; fore tarsi with brown bands. Wings not long; exterior line and a broad submarginal band purplish red; fringe full, whitish exteriorly. Fore wings acute; costa and the interior line purplish red; exterior line bent; space between the two lines partly and slightly purplish red; exterior border moderately broad. Length of the body 3—4 lines; of the wings 8 lines.

a, b. ——— ?

325. Botys Thyasalis.

Mas. *Cinereo-fusca, gracilis; palpi ascendentes, breves, lati, subtus basi nivei; pectus antice niveum; abdomen alas posticas sat superans; alæ iridescentes, sat amplæ, lineis interiore et exteriore fuscis; anticæ linea exteriore valde flexa, reniformi e lunula alba.*

Male. Cinereous-brown, slender, paler beneath. Palpi short, broad, obliquely ascending, pure white beneath towards the base; third joint extremely short. Pectus pure white in front. Abdomen extending rather beyond the hind wings. Legs smooth, slender. Wings rather ample, very iridescent; interior and exterior lines brown; fringe white, brown towards the base. Fore wings with the exterior line extremely bent; reniform mark represented by a white lunule; exterior border rather oblique. Length of the body 7 lines; of the wings 16 lines.

a. ———? From Mr. Milne's collection.

326. Botys Onophasalis.

Mas. *Cervina, sat robusta, subtus alba; palpi subascendentes, breves, sat graciles; antennæ subpectinatæ; pectus antice niveum; pedes antici fuscescentes, albo fasciati; alæ elongatæ, semihyalinæ, iridescentes, lineis interiore et exteriore fuscis undulatis sat diffusis; anticæ acutæ, linea exteriore valde flexa, reniformi e lunula alba.*

Male. Fawn-colour, rather stout, white beneath. Palpi short, rather slender, slightly ascending; third joint conical, about one-fourth of the length of the second. Antennæ minutely pectinated. Pectus pure white in front. Legs smooth, pale testaceous; fore legs brownish; fore tibiæ and fore tarsi with white bands, the former slightly tufted. Wings elongate, semihyaline, very iridescent; interior and exterior lines brown, undulating, rather diffuse. Fore wings acute; exterior line very much bent; reniform mark represented by a white lunule; exterior border very oblique. Hind wings hardly paler than the fore wings. Length of the body 6? lines; of the wings 14 lines.

a. ———?

327. Botys Simialis.

Mas. *Ferruginea, sat robusta, subtus alba; palpi ascendentes, breves, sat graciles; antennæ pubescentes; pectus anticæ niveum; pedes fusco notati, tibiis intermediis subincrassatis supra fuscis; alæ elongatæ, iridescentes, linea exteriore nigricante undulata; anticæ acutæ, linea interiore nigricante, macula postica magna purpurascente-nigra, linea exteriore valde flexa.*

Male. Ferruginous, rather stout, white beneath. Palpi short, obliquely ascending, rather slender; third joint conical, about one-fourth of the length of the second. Antennæ pubescent, rather stout. Pectus pure white in front. Legs smooth, here and there marked with brown; middle tibiæ slightly incrassated, brown above. Wings elongate, iridescent, opaque; exterior line blackish, undulating; fringe cinereous, brownish towards the base. Fore wings acute; interior line blackish, slight, bordering a large purplish black spot, which rests on the interior border; exterior line much bent; exterior border very oblique. Hind wings a little paler than the fore wings. Length of the body 7? lines; of the wings 16 lines.

a, b. ——?

328. Botys Orphnealis.

Mas. *Cervina, vix robusta, subtus albida; palpi fusci, ascendentes, arcuati; antennæ pubescentes, subtus basi incisæ; pectus antice niveum; abdomen testaceum, alas posticas superans; tibiæ posteriores dense fasciculatæ, calcare uno incrassato; alæ elongatæ, iridescentes, lineis interiore et exteriore fuscis; anticæ acutæ, linea interiore arcuata, linea exteriore valde flexa, maculis duabus hyalinis.*

Male. Fawn-colour, hardly stout, whitish beneath. Palpi brown, curved, obliquely ascending, moderately broad, white beneath towards the base; third joint conical, very minute, about one-sixth of the length of the second. Antennæ pubescent, with a notch near the base. Pectus pure white in front. Abdomen testaceous, extending rather far beyond the hind wings. Legs smooth; middle femora with a black spot above; posterior tibiæ densely tufted, one of their spurs much incrassated. Wings elongate, very iridescent; interior and exterior lines brown; fringe cinereous. Fore wings acute; interior line curved; exterior line extremely bent; a hyaline spot in the interior part of the disk, and another larger beyond and nearer the costa; exterior border extremely oblique. Length of the body 6 lines; of the wings 14 lines.

a. ——? Presented by E. Doubleday, Esq.

329. Botys Thisoalis.

Mas. *Ferruginea, sat robusta, subtus alba; palpi graciles, ascendentes, vix arcuati; antennæ subpubescentes; pectus niveum; abdomen albo fasciatum; pedes fusco fasciati; alæ anticæ acutæ, lineis interiore et exteriore nigris denticulatis, hac valde flexa, spatio intermedio nigricante, reniformi nigra annulari; posticæ fuscæ.*

Male. Ferruginous, rather stout, white beneath. Palpi slender, obliquely ascending, very slightly curved, white beneath towards the base; third joint conical, about one-fourth of the length of the second. Antennæ slightly pubescent. Pectus pure white in front. Abdomen extending rather beyond the hind wings; hind borders of the segments with transverse white marks; first and second segments with white bands. Legs smooth; tibiæ and tarsi with brown bands, which are most distinct on the fore legs. Fore wings acute; interior and exterior lines black, denticulated, the latter much bent; space between them mostly blackish; reniform mark black, annular. Hind wings brown; lines less distinct than in the fore wings. Length of the body 5 lines; of the wings 14 lines.

a. ———? Presented by J. G. Children, Esq.

330. Botys Thoosalis.

Mas. *Ochracea, robusta, subtus albida; facies antice nigra; palpi albi, ascendentes; antennæ robustæ; thoracis latera antica nigra; pectus antice niveum; abdomen alas posticas longe superans; pedes antici nigri, robusti, pilosi; alæ flavæ, elongatæ, punctis marginalibus nigris; anticæ costa basali, fasciis duabus basalibus fasciaque exteriore latissima informi purpurascente-cinereis, orbiculari nigra punctiformi; posticæ fasciis duabus indeterminatis purpurascente-cinereis.*

Male. Ochraceous, very stout, whitish beneath. Head black in front of the face. Palpi white, ascending. Antennæ very stout. Thorax black on each side in front. Pectus pure white in front. Abdomen extending far beyond the hind wings. Fore legs black, pilose, very stout. Wings yellow, elongate, opaque, with black marginal points. Fore wings acute; costa at the base, two diffuse basal bands, and an irregular oblique extremely broad exterior

band, purplish cinereous; orbicular mark black, punctiform; exterior border very oblique. Hind wings with two broad very irregular purplish cinereous bands. Length of the body 9 lines; of the wings 20 lines.

a. ———?

Genus 5. PHRYGANODES.

Mas. Corpus gracile. Oculi globosi, maximi. Palpi ascendentes, breves, graciles, arcuati; articulus 3us conicus, minimus. Antennæ graciles, subpubescentes. Abdomen basi conicum, medio arctatum, apicem versus attenuatum. Pedes graciles, glabri. Alæ anticæ angustæ, lanceolatæ, venis flexuosis, areola subobsoleta; posticæ latæ, breves, margine exteriore undulato, vena submediana contorta spatio hyalino vesiculoso inclusa.

Phryganodes, *Guen. Delt. et Pyral.* 353.

Male. Body slender. Eyes prominent, very large. Palpi ascending, short, slender, curved, applied to the front; third joint conical, very small. Antennæ slender, moderately long, minutely pubescent. Abdomen conical towards the base, straightened in the middle, beyond which it is attenuated and ends in a truncate point. Legs slender, smooth; spurs very long. Fore wings narrow, lanceolate; veins flexuous; areolet almost obsolete. Hind wings broad, short; exterior border undulating; submedian vein contorted; space about it hyaline, vesiculous.

This genus, as Guenée remarks, resembles the *Trichoptera*, and should be placed next to that tribe, which is supposed to be Lepidopterous.

1. PHRYGANODES PLICATALIS.

Mas. *Cinerea, subtus alba; abdomen alas posticas longe superans; alæ semihyalinæ, iridescentes; anticæ costa nigricante; posticæ spatio discali hyalino vesiculoso.*

Phryganodes plicatalis, *Guen. Delt. et Pyral.* 354, 422.

Cayenne.

a. Pará. From Mr. Bates' collection.

Genus 6. LONCHODES.

Mas. Corpus gracillimum. Oculi maximi. Palpi ascendentes, breves, ad frontem applicati. Antennæ longissimæ, gracillimæ, submoniliformes. Abdomen subfiliforme, apud medium coarctatum, alas posticas longe superans; segmentum apicale longissimum. Pedes longi, graciles. Alæ tenues, nitentes, concolores, lituris vix ullis; anticæ angustæ, longissimæ, lanceolatæ, vena interiore contorta; posticæ breviusculæ, apud angulum interiorem subtruncatæ.

Lonchodes, *Guen. Delt. et Pyral.* 354.
Epicorsia, p., *Hübn. Verz. Schm.* 355.

Male. Body very slender. Eyes very large. Palpi ascending, short, applied to the front. Antennæ submoniliform, very long and slender. Abdomen nearly filiform, straightened in the middle, extending far beyond the hind wings; apical segment linear, very long, ending in an obtuse point. Legs long, slender. Wings delicate, shining, alike in colour, with hardly any markings. Fore wings narrow, lanceolate, very long; interior vein much contorted. Hind wings much shorter, somewhat truncated at the interior angle.

1. Lonchodes mellinalis.

Mas. *Alæ flavescente-hyalinæ, iridescentes, venis nigris; anticæ strigis quatuor transversis discalibus, tribus anticis unaque postica fuscis.*

Epicorsia mellinalis (Pyralis vulgaris, Palpita repandata), *Hübn Samml. Exot. Schmett.* i. 24, 69, f. 137, 138; *Verz. Schmett.* 356, 3406.
Lonchodes mellinalis, *Guen. Delt. et Pyral.* 355, 423.
Brazil.

2. Lonchodes capillalis.

Mas. *Flavescente-alba; pedes longissimi; alæ anticæ subiridescentes, apice subobtusæ, costa obscuriore subconcava, margine exteriore recto; posticæ trigonæ.*

Lonchodes capillalis, *Guen. Delt. et Pyral.* 355, 424.
Cayenne.

3. Lonchodes linealis.

Mas. *Albida; palpi basi obscuri, apice pallidi; abdomen fuliginosum; alæ apud margines fuliginosæ; anticæ costa liturâque discali fuscis, margine exteriore convexo; posticæ breves, trigonæ, lituris nullis.*

Lonchodes linealis, *Guen. Delt. et Pyral.* 355, 425.

Cayenne.

Genus 7. OMIODES.

Corpus robustum. Palpi squamoso-læves, bicolores; articulus 2us latus, compressus, rotundatus, ad frontem applicatus; 3us brevissimus. Antennæ graciles, filiformes, maris subpubescentes. Thorax oblongus; tegulæ sæpe longissimæ. Abdomen alas posticas longe superans; latera villosa; fasciculus apicalis tenuis, bifidus. Alæ opacæ, non nitentes, lineis distinctis; anticæ angustæ, lanceolatæ, fimbria bicolori; posticæ trigonæ, apud angulum interiorem subproductæ.

Omiodes, *Guen. Delt. et Pyral.* 355.

Body robust. Palpi squamous, smooth, pale beneath; second joint broad, compressed, rounded, resting against the front; third very short. Antennæ slender, filiform, slightly pubescent in the male. Thorax oblong, often with very long lappets. Abdomen extending far beyond the hind wings; sides villose; apical tuft slender, bifid. Wings stout, not shining, with distinct markings. Fore wings narrow, lanceolate; fringe of two colours. Hind wings triangular; interior angle slightly produced.

West Indies.

1. Omiodes humeralis.

Mas. *Nigro fusca; palpi antice ochracei; thoracis tegulæ longissimæ, abdominis dimidium superantes; abdomen subtus album; tibiæ intermediæ ochraceæ; alæ anticæ lineis duabus lunulaque discali nebulosis, margine exteriore flexo, fimbria flexuræ utrinque albo marginata; posticæ subsinuatæ, linea lunulaque discali nebulosis, fimbria albo marginata.*

Omiodes humeralis, *Guen. Delt. et Pyral.* 356, 426.

Haiti.

South America.

2. Omiodes cuniculalis.

Mas. *Nigricante-cinerea; thorax flavo varius, tegulis longissimis cristatis; alæ anticæ costa testacea, lineis duabus nigricantibus, interiore arcuata, exteriore denticulata, striga discali; posticæ linea una strigaque discali.*

Omiodes cuniculalis, *Guen. Delt. et Pyral.* 356, 427.

Cayenne.

3. Omiodes leporalis.

Fœm. *Fulvo-cinerea; alæ linea media tenui nigricante denticulata; anticæ costa pallidiore, fimbria obscuriore apud angulum interiorem alba, linea exteriore arcuata tremula, striga discali tenui.*

Omiodes leporalis, *Guen. Delt. et Pyral.* 357, 428.

Brazil.

4. Omiodes simialis.

Fœm. *Nigricante-fusca; palpi latissimi; tibiæ anticæ fulvæ annulo nigricante; alæ lineis interiore et exteriore nigris approximatis non dentatis; anticæ costa lutea, linea interiore subarcuata, exteriore valde flexa; posticæ striga discali.*

Omiodes simialis, *Guen. Delt. et Pyral.* 357, 429.

Cayenne.

Genus 8. EBULEA.

Corpus gracile. Proboscis breviuscula. Palpi porrecti, rostriformes, squamosi; articulus 3us acutus, 2o brevior. Palpi maxillares distincti, lineares. Antennæ filiformes, squamosæ. Abdomen carinatum, subconicum. Pedes graciles, glabri. Alæ sat angustæ, non longæ; anticæ acutæ.

Sitochroa, Ecpyrrhorrhöe et Phlyctaenia, *Hübn. Verz. Schm.* 356, 357, 359.
Botys, p., *Treit.; Duponch.; Herr.-Schæff.*
Ebulea, *Guen. Delt. et Pyral.* 357.
Margaritia et Phlyctaenia, *Steph. Ill. Brit. Haust.* iv.

Body slender. Ocelli prominent. Proboscis rather short. Palpi porrect, rostriform, squamous, as long as the breadth of the head; third joint acute, shorter than the second. Maxillary palpi distinct, linear, erect or diverging. Antennæ filiform, squamous, moderately long. Abdomen keeled, somewhat conical, and with an obtuse apical pencil in the male. Legs slender, bare; spurs long. Wings rather narrow, not long. Fore wings acute; exterior border moderately oblique.

Europe.

A. Alæ non albidæ.
  A. Alæ fasciis pallidioribus - - - rubricalis, *Hübn.*
  B. Alæ fasciis non pallidioribus.
    a. Alæ fulvæ aut luteæ.
      a. Alæ fimbria nigra. - - - fimbriatalis, *Dup.*
      b. Alæ fimbria non nigra.
        i. Alæ margine exteriore non obscuro.
          verbascalis, *Wien. Verz.*
        ii. Alæ margine exteriore obscuro.
          * Alæ anticæ vix acutæ. - - rubetralis, *Guen.*
          ** Alæ anticæ acutæ. - - rubiginalis, *Hübn.*
    b. Alæ testaceæ.
      a. Alæ non angustæ. - - - - crocealis, *Hübn.*
      b. Alæ angustæ. - - - - Catalaunalis, *Dup.*
B. Alæ albidæ.
  A. Alæ linea marginali integra. - - stachydalis, *Germ.*
  B. Alæ linea marginali interrupta. - sambucalis, *Wien. Verz.*

1. Ebulea rubetralis.

Mas. *Fulva; palpi bicolores; alæ anticæ rufo-ferrugineo conspersæ, vix acutæ, linea interiore angulata, linea exteriore antice e lunulis, margine exteriore subquadrato nebuloso, striga discali; posticæ pallidiores, linea media e punctis, macula discali nebulosa.*

Ebulea rubetralis, *Guen. Delt. et Pyral.* 359, 431.

Cadiz.

2. Ebulea crocealis.

Flavescente-testacea; abdomen albidum, apice testaceum; alæ anticæ costa lineisque interiore et exteriore ochraceis, hac flexa, reniformi e lunula ochracea; posticæ albo-cinereæ, linea exteriore flexa fuscescente.

Pyralis ochrealis, *Hübn. Pyral.* pl. 22, f. 146.
Botys ochrealis, *Treit. Schm.* vii. 92, 10. *Haw. Lep. Brit.* 381. *Dup. Lép.* viii. 2, 140, pl. 219, f. 1. *Herr.-Sch. Eur. Schm.* iv. 28, 75, f. 90.
Margaritia ochrealis, *Steph. Ill. Brit. Haust.* iv. 53, 15.
Botys crocealis, *Treit. Schm.* x. 21. *Fisch. Rösl.* 221, pl. 75, f. 2. *Herr.-Sch. Eur. Schm.* iv. 28, 74.
Pyralis crocealis? *Hübn. Pyral.* f. 71.
Sitochroa crocealis? *Hübn. Verz. Schm.* 356, 3413.
Ebulea crocealis, *Guen. Delt. et Pyral.* 359, 432.

a—o. England. From Mr. Stephens' collection.
p. England. From Mr. King's collection.
q. England.
r, s. Europe. From M. Becker's collection.

3. Ebulea fimbriatalis.

Ochracea; alæ anticæ lineis basali et exteriore, maculis discalibus fimbriaque nigris; posticæ flavescentes, margine obscuriore.

Botys fimbriatalis, *Dup. Lép.* viii. 352, pl. 234, f. 2.
Ebulea fimbriatalis, *Guen. Delt. et Pyral.* 361, 435.

Morea.

4. Ebulea Catalaunalis.

Testacea; alæ angustæ, basi albidæ, venis ochraceo marginatis; anticæ valde acutæ, orbiculari et reniformi ochraceis.

Botys Catalaunalis, *Dup. Lép.* viii. 330, pl. 232, f. 8. *Herr.-Sch. Eur. Schm.* iv. 25, 64, f. 56, 57.
Margaritia cilialis, *var., Steph. Cat. Brit. Lep.* 239.
Ebulea Catalaunalis, *Guen. Delt. et Pyral.* 361, 437.

South Europe. Hindostan.

5. EBULEA RUBRICALIS.

Rufo-fusca; alæ anticæ fasciis duabus, posticæ una aurantiacis.

Pyralis rubricalis, *Hübn. Pyral.* 22, 11, pl. 16, f. 106.
Ecpyrrhorrhoe rubricalis, *Hübn. Verz. Schm.* 356, 3414.
Pyrausta rubricalis, *Treit. Schm.* vii. 174, 8.
Botys rubricalis, *Herr.-Sch. Eur. Schm.* iv. 22, 51.
Ebulea rubricalis, *Guen. Delt. et Pyral.* 362, 441.

Italy.

6. EBULEA RUBIGINALIS.

Lutea, ochraceo conspersa, subtus alba; abdomen fuscum, albido fasciatum; alæ lineis interiore et exteriore denticulatis fuscis, hac flexa, margine exteriore æneo-fusco; anticæ apud costam ochraceæ, reniformi angusta fusca.

Pyralis rubiginalis, *Hübn. Pyral.* 22, 10, pl. 12, f. 79.
Ecpyrrhorrhoe rubiginalis, *Hübn. Verz Schm.* 356, 3415.
Botys rubiginalis, *Treit. Schm.* vii. 87, 5. *Dup. Lép.* viii. 130, pl. 218, f. 2. *Fisch. Rösl.* 48, pl. 47, f. 2. *Herr.-Sch. Eur. Schm.* iv. 30, 86.
Ebulea rubiginalis, *Guen. Delt. et Pyral.* 363, 443.

a, b. Europe. From M. Becker's collection.

7. EBULEA VERBASCALIS.

Lutescens, fusco nebulosa; palpi subtus albi; abdominis segmenta albo marginata; alæ lineis interiore, exteriore et submarginali fuscis subundulatis, linea marginali distincta; anticæ acutæ, linea exteriore flexa, orbiculari punctiformi reniformi lunulata, fimbria cinerea; posticæ fimbria alba.

Pyralis verbascalis, *Wien. Verz.* 121, 5. *Illig. N. Ausg. dess.* ii. 12, 5. *Gotze, Ent. Beytr.* iii. 4, 70, 39.
Phalæna verbascata, *Fabr. Ent. Syst.* iii. 2, 212, 309.
Pyralis arcualis, *Hübn. Pyral.* 21, 9, pl. 12, f. 80.
Ecpyrrhorrhoe verbascalis, *Hübn. Verz. Schm.* 357, 3416.
Botys verbascalis, *Treit. Schm.* vii. 88, 6. *Dup. Lép.* viii. 128, pl. 8, f. 1. *Fisch. Rösl.* 48, pl. 27, f. 3. *Herr.-Sch. Eur. Schm.* iv. 30, 85.
Ebulea verbascalis, *Guen. Delt. et Pyral.* 363, 444.
Margaritia verbascalis, *Steph. Ill. Brit. Haust.* iv. 54, 19.

a—h. England. From Mr. Stephens' collection.
i—l. England. From Mr. Chant's collection.
m. England. From Mr. King's collection.
n, o. England.

8. Ebulea stachydalis.

Albida; alæ lineis interiore et exteriore nigris undulatis, basi fasciisque duabus repandis fuscis, venis fusco marginatis.

Botys stachydalis, *Germ. Faun.* iv. pl. 18. *Herr.-Sch. Eur. Schm.* iv. 30, 84, pl. 16, f. 114.
Ebulea stachydalis, *Guen. Delt. et Pyral.* 363, 445.

North France. Germany.

9. Ebulea sambucalis.

Fusco-cinerea; abdomen albo fasciatum; alæ (posticæ præsertim) ex parte albæ semihyalinæ, lineis interiore et exteriore obscure fuscis, hac dentatu, illa valde flexa, linea marginali denticulata cinerea, lunulis marginalibus atris.

——— ———, *Albin, Ins.* xxxvii. 59. *Deg. Ins.* ii. 446. *De Vill. Ent. Linn.* iv. 513.
Pyralis sambucalis, *Wien. Verz.* 122, 14. *Ill. N. Ausg. dess.* ii. 17, 14. *Lang. Verz.* ii. 211, 1430. *Brahm, Ins.* ii. 1, 322, 207. *Hübn. Pyral.* 21, 8, pl. 13, f. 81. *Haw. Lep. Brit.* 382.
Phalæna sambucata, *Fabr. Ent. Syst.* iii. 2, 215, 320.
Phlyctaenia sambucalis, *Hübn. Verz. Schm.* 359, 3443. *Steph. Ill. Brit. Haust.* iv. 42, 1.
Botys sambucalis, *Treit. Schm.* vii. 83, 3. *Dup. Lép.* viii. 131, pl. 218, f. 3. *Herr.-Sch. Eur. Schm.* iv. 30, 83
Ebulea sambucalis, *Guen. Delt. et Pyral.* 364, 447.

a—j. England. From Mr. Stephens' collection.
k, l. England. From Mr. King's collection.
m, n. England.
o, p. Europe. From M. Becker's collection.

North America.

10. Ebulea fumalis.

Mas. *Rufescente-flava; palpi rostriformes, longissimi, valde acuti; abdomen rufescens, apicem versus nigricans; alæ anticæ acutæ, subfalcatæ, lineis interiore et exteriore nigris; posticæ pallidiores nigricante tinctæ, linea una denticulata.*

Ebulea fumalis, *Guen. Delt. et Pyral.* 358, 430.

Georgia.

11. Ebulea tertialis.

Fœm. E. Stachydali *et* E. Sambucali *simillima; alæ anticæ lineæ exterioris denticulis magis determinatis, lineæ submarginalis pallidæ lunulis anticis non elongatis, maculis nullis marginalibus flavis; posticæ lineis basali et media dentatis.*

Ebulea tertialis, *Guen. Delt. et Pyral.* 364, 446.

a—c. United States. Presented by E. Doubleday, Esq.

West Indies.

12. Ebulea Murcialis.

Fœm. *Testacea; palpi cervini, porrecti, subtus albi; abdomen albido-cinereum; alæ anticæ lineis interiore et exteriore cinereis denticulatis diffusis indistinctis, hac extus pallido marginata, punctis marginalibus nigris, orbiculari et reniformi fuscescentibus; posticæ albido-cinereæ, linea exteriore cinerea.*

Female. Testaceous, whitish cinereous beneath. Palpi fawn-colour, porrect, white beneath. Antennæ bare, slender. Abdomen whitish cinereous, extending very little beyond the hind wings. Legs smooth, rather stout; middle tibiæ slightly curved. Wings rather short and broad, not shining. Fore wings somewhat rounded at the tips; interior and exterior lines cinereous, denticulated, indistinct, diffuse, the latter pale bordered exteriorly; orbicular and reniform marks brownish, rather diffuse; marginal points black, very minute; fringe cinereous. Hind wings whitish cinereous, with an exterior cinereous line. Length of the body 4 lines; of the wings 10 lines.

a. St. Domingo. From Mr. Tweedie's collection.

South America.

A. Alæ anticæ falcatæ. - - - subinquinalis, *Guen.*
B. Alæ anticæ non falcatæ.
A. Alæ anticæ punctis marginalibus nigris. - invisalis, *Guen.*
B. Alæ punctis nullis marginalibus.
a. Alæ anticæ lineatæ.
a. Alæ marginatæ. - - - - sobrinalis, *Guen.*
b. Alæ non marginatæ. - - - nullalis, *Guen.*
b. Alæ anticæ non lineatæ. - - - Heronalis, *Guen.*

13. Ebulea sobrinalis.

Mas et fœm. *Ochracea; abdomen album; alæ anticæ pallide ochraceo-flavæ, lineis interiore et exteriore striyaque discali, spatio marginali pallide fusco-cinereo, fimbria nigro-cinerea apice alba; posticæ fere albæ, lituris nullis, apice flavescente-cinereæ.*

Ebulea sobrinalis, *Guen. Delt. et Pyral.* 360, 434.

Cayenne.

14. Ebulea nullalis.

Mas. *Pallide cervina; alæ anticæ lineis interiore et exteriore punctisque duobus discalibus vix distinctis, fimbria nigricante apice alba; posticæ albæ, apud marginem cervino tinctæ.*

Ebulea nullalis, *Guen. Delt. et Pyral.* 361, 436.

Brazil.

15. Ebulea invisalis.

Fœm. *Pallide cervina; alæ anticæ punctis marginalibus nigris, fimbria nigricante apice alba; posticæ albæ, margine exteriore cervino subtincta, linea marginali duplicata nigricante.*

Ebulea invisalis, *Guen. Delt. et Pyral.* 361, 438.

Cayenne.

16. Ebulea subinquinalis.

Mas. *Testacea; alæ anticæ acutæ, falcatæ, subiridescentes, basi subflavescente, lineis interiore et exteriore indistinctis, striga tenui discali; posticæ pallidiores, lituris vix ullis.*

Ebulea subinquinalis, *Guen. Delt. et Pyral.* 362, 439.

Brazil.

17. Ebulea Heronalis.

Læte lutea, subtus alba; palpi albi, ascendentes, nigro fasciati; pectus antice niveum; pedes antici supra nigri; alæ unicolores, innotatæ.

Bright luteous, white beneath. Palpi white, obliquely ascending, with a black band near the tips. Pectus pure white in front. Fore tibiæ and fore tarsi black above. Wings alike in colour, moderately broad; fringe hardly paler than the wings. Fore wings slightly rounded at the tips; exterior border rather oblique. Length of the body 4 lines; of the wings 10 lines.

a. Honduras. From Mr. Dyson's collection.

Africa.

18. Ebulea approximalis.

Mas. *Rufescente-ochracea*, E. ochreali *similis; palpi cervini, subtus albi; alæ anticæ costa saturatiore, fimbria ferruginea; posticæ stramineo-albæ, rotundatæ, lituris nullis, margine exteriore non sinuato.*

Ebulea approximalis, *Guen. Delt. et Pyral.* 360, 433.

Sierra Leone.

19. Ebulea Olesialis.

Mas. *Ochracea; palpi lati, vix ascendentes, articulo 3o lanceolato longiusculo; thoracis tegulæ longiusculæ; pedes antici nigro fasciati; alæ anticæ lineis quatuor diffusis denticulatis purpurascentibus.*

Male. Ochraceous, hardly slender, white beneath. Palpi broad, hardly ascending; third joint lanceolate, more than half the length of the second. Antennæ smooth. Tegulæ of the thorax rather long. Abdomen paler than the thorax, hardly extending beyond the hind wings. Fore tibiæ with black tips; fore tarsi with black bands. Fore wings slightly rounded at the tips, with four diffuse denticulated purplish lines. Hind wings hardly paler than the fore wings, without lines. Length of the body 3¼ lines; of the wings 8 lines.

a. Congo. Presented by Sir J. Richardson.

Asia.

20. Ebulea Europsalis.

Fœm. *Lutea, miniato varia ; palpi porrecti, breves, lati, articulo 3o conico acuto ; femora postica alba ; tibiæ posticæ subdilatatæ ; alæ lineis sex miniatis denticulatis, fimbria basi rufa.*

Female. Luteous, varied with red-lead colour, rather stout. Palpi porrect, short, broad ; third joint acutely conical, much less than half the length of the second. Pectus white. Hind femora white ; hind tibiæ slightly dilated ; anterior tarsi with white bands. Wings with six red-lead coloured denticulated lines ; fringe red at the base. Fore wings hardly acute ; exterior border moderately oblique. Length of the body 4 lines ; of the wings 10 lines.

a. North Hindostan. From Mr. James' collection.

21. Ebulea? Camillalis.

Mas. *Pallide lutea ; palpi breves, porrecti, compressi ; articulus 3us conicus, 2i dimidio brevior ; antennæ robustæ, nudæ ; abdomen albidum, alas posticas non superans ; alæ nitentes, sat angustæ ; anticæ apice subrotundatæ, lineis tribus obliquis undulatis ex parte duplicatis nigris, punctis marginalibus nigris, albo marginatis, reniformi magna obliqua ferruginea albo conspersa et marginata ; posticæ albæ.*

Male. Pale luteous. Proboscis moderately long. Palpi short, porrect, compressed, extending very little beyond the head ; third joint conical, less than half the length of the second. Antennæ stout, bare. Abdomen whitish, not extending beyond the hind wings. Wings shining, rather narrow. Fore wings slightly rounded at the tips with three oblique undulating partly double black lines ; marginal points black, white-bordered, very minute ; reniform mark large, oblique, ferruginous, white-speckled, white-bordered. Hind wings white. Length of the body 2½ lines ; of the wings 7 lines.

Ceylon. In Mr. Layard's collection.

Australasia.

22. Ebulea Orseisalis.

Mas. *Ochracea ; palpi breves, lati, ascendentes, articulo 3o minimo ; antennæ subpubescentes ; pedes rufo varii, tarsis anterioribus*

albido fasciatis; alæ lineis quinque indistinctis subdenticulatis rufis, linea marginali gracillima, fimbria flavescente basi rufescente.

Male. Ochraceous, yellowish white beneath. Palpi short, broad, obliquely ascending; third joint very minute. Antennæ very minutely pubescent. Legs partly red; anterior tarsi with whitish bands. Wings moderately broad, with five indistinct red lines, which are much less denticulated than those of *E. Europsalis*; marginal line very slender; fringe yellowish, reddish at the base. Fore wings slightly acute; exterior border moderately oblique. Length of the body 4 lines; of the wings 10 lines.

a. Java. From the East India Company's collection.

Country unknown.

23. Ebulea Miniosalis.

Fœm. *Pallide miniata; alæ lineis interiore et exteriore saturatioribus subobsoletis, fimbria magis flavescente; anticæ acutæ; posticæ rotundatæ.*

Ebulea Miniosalis, *Guen. Delt. et Pyral.* 362, 440.

24. Ebulea flagralis.

Fœm. *Fulvo-rufescens; palpi cervini, subtus albi; thorax saturatior; abdomen albido-cinereum; alæ anticæ angustæ, acutæ, violaceo-fusco tinctæ, lineis interiore et exteriore maculaque discali sat magna nigricantibus, guttis marginalibus pallidis; posticæ nigricante-cinereæ, disco pallido, linea tenui nigricante.*

Ebulea flagralis, *Guen. Delt. et Pyral.* 362, 442.

Genus 9. HOMOPHYSA.

Corpus sat gracile. Proboscis robusta, non longa. Palpi ascendentes, arcuati, flavo albuque cincti, articulis subæqualibus, 3o cylindrico obtuso. Palpi maxillares distincti, lineares. Antennæ breviusculæ, cylindricæ, robustæ. Thorax brevis. Alæ latiusculæ, rotundatæ, fimbria longa plena; anticæ robustæ, apice obtusæ.

Homophysa, *Guen. Delt. et Pyral.* 364.
Glaphyria, p. *Hübn. Verz. Schm.* 357.

Body rather slender. Proboscis robust, rather short. Palpi ascending, curved, with yellow and white bands; joints very distinct, nearly equal; first and second squamous, compressed; third cylindrical, obtuse. Maxillary palpi distinct, linear. Antennæ smooth, stout, cylindrical, rather short. Thorax short. Wings rather broad, rounded, with a long and full fringe. Fore wings stout, with obtuse tips.

North America.

1. Homophysa glaphyralis.

Fœm. *Læte flava; thorax albo varius; alæ anticæ lineis duabus basalibus parallelis undulatis, strigis duabus intermediis, linea exteriore arcuata, nebula adhuc exteriore, guttis marginalibus, macula discali lituraque costali albis; posticæ albæ, flavo tinctæ, linea alba.*

Homophysa glaphyralis, *Guen. Delt. et Pyral.* 366, 450.

North America.

2. Homophysa sesquistrialis.

Mas. *Lutescens; alæ punctis marginalibus nigris, anticæ fasciis duabus albis, 1a antemedia recta, 2a postmedia arcuata; posticæ fascia una alba.*

Glaphyria sesquistrialis (Pyralis vulgaris, Palpita repandata), *Hubn. Zutr.* 29, 185, f. 369, 370; *Verz. Schm.* 357, 3423.

Homophysa sesquistrialis, *Guen. Delt. et Pyral.* 366, 451.

Pennsylvania.

South America.

3. Homophysa sulphuratalis.

Luteo-flava; alæ anticæ fasciis duabus e maculis albis nigro marginatis, 2a postice abbreviata, fascia exteriore cinerea fusco marginata; posticæ striga postica cinerea fusco marginata.

Phalæna-Pyralis sulphuralis, *Cram. Pap. Exot.* iv. 113, pl. 348, f. E.

Homophysa sulphuratalis, *Guen. Delt. et Pyral.* 365, 448.

Surinam.

4. HOMOPHYSA LEPIDALIS.

Luteo-flava ; alæ anticæ fasciis interiore et submarginali cinereis undulatis, 2a extus fusco marginata, guttis intermediis cinereis, umbra discali fuscescente ; posticæ vitta discali abbreviata cinerea, fascia submarginali cinerea fusco marginata.

Phalæna-Pyralis lepidaria, *Cram. Pap. Exot.* iv. 161, pl. 371, f. K.
Homophysa lepidalis, *Guen. Delt. et Pyral.* 365, 448.
Surinam.

5. HOMOPHYSA MICRALIS.

Fœm. *Alba ; corpus flavo varium ; alæ anticæ spatio medio maculisque duabus apud marginem exteriorem fuscescente-cinereis, maculis basalibus maculisque tribus costalibus subapicalibus, lineis duabus vagis e atomis nigricantibus, fimbria albo et nigricante intercisa flavo varia ; posticæ nigricantes, apud marginem albo tinctæ.*

Homophysa micralis, *Guen. Delt. et Pyral.* 366, 452.
Interior of Brazil.

Genus 10. PIONEA.

Corpus gracile. Palpi porrecti, rostriformes, plus minusve acuti. Palpi maxillares bene determinati. Antennæ breviusculæ, glabræ aut vix pubescentes. Abdomen conicum, carinatum, alas posticas vix aut paullo superans. Pedes glabri, sat validi. Alæ amplæ, plus minusve acutæ, nonnunquam falcatæ.

Botys, p. *Treit. ; Dup. ; Herr-Schæff.*
Mesographe, p. et Evergestis, p. *Hubn. Verz. Schm.* 354.
Mesographe et Margaritia, p. *Steph. Ill. Brit. Haust.* iv.
Pionea, *Guen. Delt. et Pyral.*

Body slender. Proboscis slender, rather short. Palpi straight, contiguous, rostriform, squamous-hirsute, more or less acute, a little shorter or longer than the breadth of the head. Maxillary palpi very distinct, penicillated. Antennæ prismatic, rather short, bare or hardly pubescent. Thorax short. Abdomen conical, keeled, extending hardly or a little beyond the hind wings, with two diverging apical tufts in the male. Legs rather stout, bare ; spurs moderately long. Wings ample. Fore wings more or less acute, or even falcate.

Europe.

A. Alæ posticæ albidæ aut flavescentes.
A. Alæ posticæ macula nulla apicali.
a. Alæ anticæ fusco non marginatæ.
a. Alæ anticæ striga apicali. - - forficalis, *Linn.*
i. Alæ anticæ striga nulla apicali. - cruentalis, *Geyer.*
b. Alæ anticæ fusco marginatæ.
a. Alæ posticæ albæ. - - - margaritalis, *Fabr.*
b. Alæ posticæ flavescentes. - - limbalis, *Linn.*
B. Alæ posticæ macula apicali. - - stramentalis, *Hubn.*
B. Alæ posticæ cinereæ. - - - politalis, *Wien. Verz.*

1. Pionea forficalis.

Pallide testacea; alæ anticæ lineis interiore et exteriore fuscescentibus perobliquis, striga apicali obliqua fusca, reniformi e lineola nigricante; posticæ testaceo-albidæ, linea submarginali abbreviata fuscescente.

——— ———, *Reaum. Ins.* i. pl. 16, f. 13, 14. *Geoff. Ins.* ii. 166, 111. *Schæff. Icon.* i. pl. 51. *De Vill. Ent. Linn.* ii. 435, 783.

Phalæna-Pyralis forficalis, *Linn. Syst. Nat.* i. 2, 882, 334; *Faun. Suec.* 1352. *Gmel. ed. Syst. Nat.* i. 5, 2521, 334.

Phalæna forficalis, *Fabr. Sp. Ins.* ii. 272, 177; *Mant. Ins.* ii. 217, 276; *Ent. Syst.* iii. 2, 223, 353.

Crambus forficatus, *Fabr. Ent. Syst. Suppl.* 467, 20.

Pyralis forficalis, *Wien. Verz.* 122, 17. *Fuessl. Schw. Ins.* 82, 813. *Lang. Verz.* ii. 211, 1433. *Götze, Ent. Beytr.* iii. 4, 57, 334. *Müll. Faun. Frid.* 54, 484; *Zool. Dan. Prodr.* 133, 1535. *Brahm. Ins. Kal.* ii. 1, 325, 210. *Ill. N. Ausg. dess.* ii. 19, 17. *Hübn. Pyral.* 28, 17, pl. 9, f. 58. *Haw. Lep. Brit.* 377.

Botys forficalis, *Treit. Schm.* vii. 122, 33. *Dup. Lep.* viii. 147, pl. 219, f. 6. *Herr.-Schæff. Eur. Schm.* iv. 36, 111.

Mesographe forficalis, *Hübn. Verz. Schm.* 354, 3388. *Steph. Ill. Brit. Haust.* iv. 45, 1.

Pionea forficalis, *Guen. Delt. et Pyral.* 369, 455.

a—h. England. From Mr. Stephens' collection.
i, j. England. From Mr. King's collection.
k—n. England.
o, p. Europe. From M. Becker's collection.
q. Nice. From Dr. Leach's collection.

2. Pionea Vandalusialis.

Botys Vandalusialis, *Herr.-Schæff. Eur. Schm.* f. 143.
Pionea Vandalusialis, *Guen. Delt. et Pyral.* 370, 457.

Andalusia.

3. Pionea margaritalis.

Pallide flava; alæ anticæ lineis interiore et exteriore luteis nigricante punctatis non bene determinatis, plaga apud marginem exteriorem fusca; posticæ albæ, linea marginali fusca.

Phalæna margaritalis, *Fabr. Mant. Ins.* ii. 218, 282; *Ent. Syst.* iii. 2, 226, 363. *Germ. Mag. Ent.* iii. 442, 444.
Pyralis extimalis? *Scop. Ent. Carn.* 614.
Pyralis margaritalis? *Wien. Verz.* f. 23, 29. *Ill. N. Ausg. dess.* ii. 23, 29; *Mag.* iv. 7, 29. *Götze Ent. Beytr* iii. 4, 72, 57.
Phalæna-Pyralis margaritalis, *Gmel. ed. Syst. Nat.* i. 5, 2521, 924.
Pyralis erucalis, *Hübn. Pyral.* 28, pl. 9, f. 55.
Evergestis margaritalis, *Hübn. Verz. Schm.* 354, 3382.
Scopula margaritalis, *Treit. Schm.* vii. 73, 17. *Dup. Lep.* viii. 100, pl. 216, f. 1. *Herr.-Schæff. Eur. Schm.* iv. 34, 100.
Margaritia margaritalis, *Steph. Ill. Brit. Haust.* iv. 57, 26.
Pionea margaritalis, *Guen. Delt. et Pyral.* 370, 459.

a—c. England. From Mr. Turner's collection.
d, e. England.
f—h. Europe. From. M. Becker's collection.
i, j. Germany. From M. Heminghoffen's collection.

4. Pionea cruentalis.

Mas. *Pallide testacea; alæ anticæ fasciis tribus cervinis, 1a antemedia indistincta, 2a 3aque postmediis postice connexis; posticæ fascia subapicali et subtus fascia media postice abbreviata cervinis.*

Uresiphita cruentalis, (Pyralis vulgaris, Palpita ambigua), *Geyer, Zutr. Samml. Exot. Schmett.* 29, 361, f. 721, 722.
Botys badialis, *Treit. Suppl.* 8.
Botys Bourjotalis, *Lefebvre. Dup. Lep.* viii. 313, pl. 231, f. 4; *Suppl.* 381, pl. 80, f. 9. *Fisch.-Rossl.* 264, pl. 90, f. 1.
Botys cruentalis, *Herr.-Schæff. Eur. Schm.* iv. 36, 112.
Pionea cruentalis, *Guen. Delt. et Pyral.* 371, 461.

Sicily. Constantinople. Balkan Mountains. Smyrna.

5. PIONEA POLITALIS.

Cervina; abdomen albido-cinereum; alæ anticæ ferrugineæ, plaga basali, fascia media lata e maculis et guttis lineaque marginali valde incompleta luteo-flavis; posticæ cinereæ, margine lato fusco.

——— ———, *De. Vill. Ent. Linn.* iv. 518.

Pyralis politalis, *Wien. Verz.* 121, 4. *Ill. N. Ausg. dess.* ii. 12, 4. *Lang. Verz.* ii. 210, 1427. *Götze. Ent. Beytr.* iii. 4, 70, 38. *Hübn. Pyral.* 26, 6, pl. 21, f. 136; pl. 29, f. 183.

Mesographe politalis, *Hübn. Verz. Schm.* 354, 3389.

Phalæna politalis, *Fabr. Ent. Syst.* iii. 2, 236, 403.

Botys politalis, *Treit. Schm.* vii. 85, 4. *Dup. Lep.* viii. 134, pl. 218, f. 4. *Fisch.-Rossl.* 47, pl. 27, f. 1. *Herr.-Schæff. Eur. Schm.* iv. 35, 106.

Pionea politalis, *Guen. Delt. et Pyral.* 372, 463.

a, *b*. Europe. From M. Becker's collection.

6. PIONEA LIMBALIS.

Flava; alæ anticæ margine exteriore late fusco, annulo medio fusco fere bicincto lineaque decurrente ejusdem coloris; posticæ flavescentes, margine fusco.

Phalæna-Geometra limbata, *Linn. Syst. Nat.* ii. 873, 273.

Phalæna limbata, *Fabr. Ent. Syst.* iii. 2, 211, 305.

Pyralis politalis, *var.*, *Hübn. Pyral.* pl. 10, f. 61.

Botys politalis, *Dup. Lép.* viii. 135, pl. 218, f. 5.

Mesographe prætextalis, *Hübn. Verz. Schm.* 354, 3386.

Botys prætextalis, *Treit. Schm.* x. *Supp.* 18. *Herr.-Sch. Eur. Schm.* iv. 31, 90.

Pionea prætextalis, *Guen. Delt. et Pyral.* 372, 464.

France. Austria. Hungary. Sicily.

7. PIONEA STRAMENTALIS.

Albido-flavescens; alæ linea marginali fusca; anticæ venis fuscescentibus, lineis interiore et exteriore subangulatis subundulatis nigricantibus, submarginali diffusa dentata fuscescente, reniformi e annulo fusco; posticæ albidæ, linea submarginali antice obsoleta maculâque apicali fuscis.

Pyralis elutalis, *Hübn. Pyral.* 26, 5, pl. 10, f. 62. *Haw. Lep. Brit.* 373.
Mesographe stramentalis, *Hübn. Verz. Schm.* 354, 3385.
Scopula stramentalis, *Treit. Schm.* vii. 76, 18. *Dup. Lép.* viii. 102, pl. 216, f. 2.
Botys stramentalis, *Herr.-Sch. Eur. Schm.* iv. 35, 105.
Margaritia stramentalis, *Steph. Ill. Brit. Haust.* iv. 57.
Pionea stramentalis, *Guen. Delt. et Pyral.* 373, 465.

a—f. England. From Mr. Stephens' collection.
g. England. From Mr. Chant's collection.
h, i. England. From Mr. King's collection.
j, England.
k, l. Europe. From M. Becker's collection.

North America.

8. Pionea rimosalis.

Fœm. *Pallidissime ochraceo-flava; alæ iridescentes; anticæ nigricante conspersæ, lineis interiore et exteriore nigricantibus obliquis parallelis dentatis, macula discali nigricante sat magna subexvisa, striga apicali nigricante; posticæ pallidiores, striga discali linea dentata maculaque apicali trigona nigricantibus.*

Pionea rimosalis, *Guen. Delt. et Pyral.* 371, 460.

North America.

9. Pionea Eunusalis.

Mas et fœm. *Straminea; oculi albo cincti; palpi cervini, breves, sat graciles, articulo 3o basi albo; alæ latiusculæ; anticæ atomis, lineis interiore et exteriore parallelis obliquis subundulatis, fascia submarginali, linea marginali annuloque discali fuscis; posticæ albæ, linea submarginali incompleta lineaque marginali fuscis.*

Male and female. Straw-colour, paler beneath. Head white about the eyes. Palpi fawn-colour, porrect, short, rather slender; third joint white at the base. Antennæ rather stout. Abdomen not extending beyond the hind wings. Wings rather short and broad. Fore wings hardly acute, irregularly speckled with brown, which forms a more or less diffuse submarginal band; interior and exterior

lines brown, parallel, oblique, slightly undulating; reniform mark forming a large irregular brown ringlet, which is intersected by the interior line; marginal line brown, distinct. Hind wings white, with a brown marginal line and an incomplete submarginal line. Length of the body 4—4½ lines; of the wings 10—11 lines.

a, b. United States. Presented by E. Doubleday, Esq.
c—g. Nova Scotia. From Lieut. Redman's collection.

10. PIONEA SCRIPTURALIS.

Pallide lutescens, gracilis, subtus alba; palpi fusci, brevissimi, subtus apiceque albi; thoracis latera antica fusca; abdomen alas posticas longe superans; pedes antici nigro fasciati; alæ elongatæ, linea marginali nigra; anticæ subfalcatæ, postice nigro-fuscæ, lineis quatuor denticulatis, orbiculari et reniformi e annulis duobus magnis apud medium coarctatis annuloque posteriore nigris, maculis discalibus albis hyalinis; posticæ disco nigro-fusco, costa alba, macula alba annuloque nigro incompleto discalibus incompletis, lineis duabus exterioribus nigris denticulatis approximatis parallelis.

Pionea scripturalis, *Guen. Delt. et Pyral.* 373, 466.

a, b. Orilla, West Canada. From Mr. Bush's collection.
c. United States. Presented by E. Doubleday, Esq.
d. Pará. From Mr. Lamb's collection.

11. PIONEA HELVALIS.

Fœm. *Pallide cervina; palpi porrecti, obscuriores, articulo 2o obtuso, 3o minuto longi-conico; alæ albido-cinereæ, latiusculæ, fimbria longa plena; anticæ vix acutæ, cervino conspersæ, lineis cervinis valde denticulatis, hac flexa, punctis marginalibus cervinis, reniformi cervina obliqua vacua sublunulata; posticæ lineis interiore et exteriore fuscescentibus denticulatis indistinctis.*

Female. Pale fawn-colour, slender. Palpi porrect, darker than the body, white beneath, not long nor rostriform; second joint obtuse; third minute, elongate-conical, not more than one-fourth of the length of the second. Abdomen whitish. Wings whitish cinereous, rather broad; fringe long and full. Fore wings hardly acute, speckled with fawn-colour, and especially so at the base and

along the costa; interior and exterior lines fawn-colour, much denticulated, the latter much bent; marginal points fawn-colour; reniform mark fawn-colour, oblique, void, slightly lunulate. Hind wings with the interior and exterior lines brownish, denticulated, indistinct. Length of the body 5 lines; of the wings 12 lines.

a. United States. Presented by E. Doubleday, Esq.

12. Pionea Dionalis.

Mas. *Pallide cervina; palpi porrecti, articulo 3o parvo conico; antennæ sat validæ; alæ albido-cinereæ, fuscescente conspersæ; anticæ acutæ, lineis interiore et exteriore denticulatis pallide fuscescentibus, orbiculari punctiformi, reniformi e striga arcuata; posticæ linea exteriore fuscescente undulata non denticulata.*

Male. Pale fawn-colour, slender, white beneath. Palpi porrect, not long, white beneath; third joint conical, not more than one-fourth of the length of the second. Antennæ rather stout. Wings whitish cinereous, slightly speckled with pale brown, narrower than in the preceding species. Fore wings acute; interior and exterior lines pale brownish, denticulated; marginal line slender, brownish; orbicular mark brownish, punctiform, reniform mark forming a curved brownish streak. Hind wings with the exterior line brownish, undulating, not denticulated. Length of the body 4½ lines; of the wings 11 lines.

a, *b*. Nova Scotia. From Lieut. Redman's collection.

Africa.

13. Pionea africalis.

Pallide testacea, P. forficali *affinis; alæ angustiores, punctis marginalibus nigris; anticæ striga apicali obliqua diffusa fusca, lineis duabus fuscis perobliquis, 1a incompleta, reniformi e macula rotunda nigricante; posticæ linea interiore subobsoleta, exteriore guttulari.*

Pionea africalis, *Guen. Delt. et Pyral.* 369, 456.

Algeria.

a. Cape. From M. Dregé's collection.
b—e. South Africa. Presented by Sir A. Smith.

14. Pionea conquisitalis.

Paullo major P. forficali; *thorax linea media nigra; alæ ligneo-subcinereæ, sericeæ; anticæ macula magna reniformi strigisque punctiformibus; posticæ serie triplici punctorum nigris.*

Pionea conquisitalis, *Guen. Explor. Scient. de l'Alger. Anim. Artic.* iii. 403, 159, pl. 4, f. 9; *Delt. et Pyral.* 370, 458.

Oran.

15. Pionea bifascialis.

Paullo major P. politali; *alæ sericeæ, paleaceo-luteæ; anticæ fasciis duabus, posticæ unica lineaque fusco-violaceis.*

Pionea bifascialis, *Guen. Explor. Scient. de l'Alger. Anim. Artic.* iii. 403, 166; *Delt. et Pyral.* 372, 462.

Constantina.

Asia.

16. Pionea brevialis.

Mas. *Pallidissime cervina, sat valida; palpi porrecti, breves, articulo 3o conico acuto; antennæ subpubescentes; alæ breviusculæ; anticæ apice rectangulatæ, lineis interiore et exteriore fuscescentibus undulatis indistinctis, hac flexa, linea submarginali valde indistincta, reniformi e striga obliqua arcuata cervina; posticæ testaceæ.*

Male. Very pale fawn-colour, rather stout. Palpi porrect, short, white beneath; third joint conical, acute, less than half the length of the second. Maxillary palpi visible. Antennæ minutely pubescent. Pectus white. Abdomen testaceous. Wings rather short. Fore wings rectangular at the tips; interior and exterior lines brownish, undulating, indistinct, the latter bent; a more indistinct submarginal line; reniform mark forming a curved oblique fawn-coloured streak. Hind wings testaceous. Length of the body 3½ lines; of the wings 8 lines.

a. Colombo, Ceylon. From Herr Dohrn's collection.

Australia.

17. Pionea? Susialis.

Mas. *Testacea, gracilis; palpi porrecti, pilosi, longiusculi, non lati nec rostriformes; antennæ breviusculæ, subpubescentes; abdomen alas posticas non superans; pedes breviusculi, alæ breviusculæ, fusco conspersæ, linea media pallida arcuata, punctis marginalibus nigricantibus; anticæ lineis interiore et exteriore fasciaque intermedia fuscescentibus indistinctis.*

Male. Testaceous, slender. Palpi porrect, pilose, not broad nor rostriform, as long as the breadth of the head; third joint elongate, less than one-third of the length of the second. Antennæ rather short, very minutely pubescent. Abdomen not extending beyond the hind wings. Legs rather short. Wings rather short, moderately broad, speckled with pale brown; a pale curved middle line; marginal points blackish. Fore wings nearly rectangular at the tips; middle line bordering the outer side of a brownish band; interior and exterior lines brownish, indistinct. Length of the body 3 lines; of the wings 8 lines.

a. Sydney. From Mr. Lambert's collection.

Country unknown.

18. Pionea? anastomosalis.

Mas et fœm. *Flavescente-alba; thorax fuscus, antice fulvescens; alæ subhyalinæ, lineis fuscis undatis denticulatis connexis, spatio basali fusco; anticæ falcatæ, acutæ, orbiculari et reniformi e annulis duobus antice apertis, hac fulvescente, lineis duabus submarginalibus; posticæ annulo discali magno duplicato fulvescente.*

Pionea anastomosalis, *Guen. Delt. et Pyr.* 373, 467.

Java?

Genus 10.* ASCIODES.

Corpus sat robustum. Palpi subascendentes, glabri, non lati; articulus 3us brevissimus. Abdomen alas posticas non superans.

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* This genus was accidentally omitted in the synopsis of genera.

Alæ subiridescentes, fimbria guttata; anticæ acutæ, lineis distinctis, reniformi annulari, vena interiore valde sinuata. *Mas.*—Antennæ pubescentes, crista squamosa ornatæ. Abdomen cylindricum, valde obtusum. Tibiæ anticæ dense fasciculatæ.

Asciodes, *Guen. Delt. et Pyr.* 374.

Body rather robust. Palpi slightly ascending, smooth, not broad, extending but little beyond the head; third joint very short. Abdomen not extending beyond the hind wings. Wings smooth, shining, slightly iridescent; fringe dotted. Fore wings acute; lines distinct; reniform mark annuliform; interior vein very distinct, deeply sinuated. *Male.*—Antennæ pubescent, furnished before the middle with a squamous crest. Abdomen cylindrical, very obtuse at the tip. Fore tibiæ with a dense tuft of hairs.

West Indies.

1. Asciodes internitalis.

Fœm. *Testaceo-cinerea; alæ anticæ ex parte rufescente-fuscæ, lineis interiore et exteriore nigricantibus, hac obliqua apud medium dentata antice recta, macula exteriore nigra trapeziformi, orbiculari et reniformi approximatis parvis, illa ovata, punctis marginalibus bene determinatis; posticæ linea media indeterminata, striga discali nebulaque exteriore nigricantibus.*

Asciodes internitalis, *Guen. Delt. et Pyr.* 375, 470.

Haiti.

South America.

2. Asciodes Gordialis.

Pallide testaceo-straminea; alæ anticæ atomis nigricante-fuscis apud marginem exteriorem confluentibus, linea interiore ex parte puncti formi, linea exteriore costam versus angulosa, punctis marginalibus nigris, fimbria nigro punctata, reniformi e annulo parvo ovato; posticæ pallidiores, magis hyalinæ. Mas.—*Tarsi antici basi fasciculati.*

Asciodes Gordialis, *Guen. Delt. et Pyr.* 375, 469.

Brazil.

3. ASCIODES SCOPULALIS.

Mas. A. Gordiali *affinis, major; palpi angustiores, glabriores, articulo 3o magis distincto; metatarsus anticus non fasciculatus; alæ anticæ latiores lituris minus determinatis, orbiculari et reniformi vix annularibus.*

Asciodes scopulalis, *Guen. Delt. et Pyr.* 375, 469.

Brazil.

Genus 11. MEGASTES.

Corpus pilosum, valde robustum. Thoracis tegulæ cristatæ, late disjunctæ. Abdominis latera subfasciculata. Pedes validi, pilosi, breviusculi. Alæ elongatæ, semihyalinæ; anticæ subfalcatæ, marginibus interiore et exteriore subsinuatis; posticæ margine interiore subsinuato. *Mas.*—Palpi lati, pilosi, porrecti; articulus 3us linearis, obtusus, 2i dimidio non longior. Antennæ subpectinatæ. Abdomen alas posticas longissime superans. *Fœm.*—Palpi angustiores, minus pilosi; articulus 3us 2o vix brevior. Antennæ robustæ, simplices. Abdomen alas posticas longe superans.

Megastes, *Guen. Delt. et Pyr.* 375.

Body pilose, very stout. Tegulæ of the thorax widely separate; their hairs forming crests. Abdomen with small tufts along each side. Legs stout, pilose, rather short. Wings elongate, semihyaline. Fore wings subfalcate; exterior and interior borders slightly sinuated. Hind wings with the interior border slightly sinuated. *Male.*—Palpi broad, pilose, porrect; third joint linear, obtuse, about half the length of the second. Antennæ slightly pectinated. Abdomen extending very far beyond the hind wings. *Female.*—Palpi more slender, less pilose; third joint almost as long as the second. Antennæ stout, simple. Abdomen extending far beyond the hind wings.

This genus is placed by Guenée between *Pionea* and *Spilodes*, but differs much more from these two genera than they do from each other, and perhaps should be removed from the *Botydæ*.

1. MEGASTES GRANDALIS.

Pallide testaceo-fuscescens, subtus alba; alæ anticæ ex maxima parte albido semihyalinæ, lineis interiore et exteriore fuscis hac denticulata valde flexa, linea submarginali denticulata

antice conspicua, orbiculari, reniformi maculaque postica testaceis fusco marginatis; posticæ albo-hyalinæ, apice margineque fuscis, linea exteriore fusca denticulata.

Megastes grandalis, *Guen. Delt. et Pyr.* 376, 471.

Brazil.

a—c. Venezuela. From Mr. Dyson's collection.

Genus 12. OROBENA.

Corpus gracile. Proboscis robusta. Palpi breves, squamosi; articulus 2us ascendens; 3us distinctus, porrectus. Palpi maxillares penicillati, valde distincti. Antennæ glabræ, filiformes. Abdomen conicum, attenuatum, alas posticas paullo superans. Alæ amplæ, sericeæ, non hyalinæ nec iridescentes; anticæ pulverulentæ, nebulosæ, apice subrotundatæ, lineis indeterminatis subparallelis, fasciis e atomis albis.

Mesographe, p. et Scopolia, *Hübn. Verz. Schm.* 354, 368.
Scopula, p., *Treit. Dup.*
Botys, p., *Herr.-Schæff.*
Orobena, *Guen. Delt. et Pyral.* 376.

Body slender. Proboscis robust, separating the palpi. Palpi short, squamous; second joint rounded, ascending; third distinct, porrect. Maxillary palpi very distinct, penicillate, extending to the second joint of the labial palpi. Antennæ filiform, smooth. Abdomen conical, attenuated, extending a little beyond the hind wings. Wings ample, silky, not hyaline nor iridescent. Fore wings pulverulent, clouded, somewhat rounded at the tips, with irregular almost parallel lines, marked by white atoms.

1. Orobena Sophialis.

Alæ anticæ cinereo-fuscoque nebulosæ, atomis glaucis, strigis duabus subobsoletis albis; posticæ cinereæ, fascia exteriore obscuriore.

———, *De Vill. Ent. Linn.* iv. 515.
Phalæna Sophialis, *Fabr. Ent. Syst.* iii. 2, 223, 354.
Crambus Sophiæ, *Fab. Ent. Syst. Suppl.* 467, 21.
Phalæna variegalis? *Fabr. Ent. Syst.* iii. 2, 224, 355.
Pyralis Sophialis, *Hübn. Pyral.* 29, 21, pl. 8. f. 50.
Scopolia Sophialis, *Hübn. Verz. Schm.* 368, 3531.

Scopula Sophialis, *Treit.. Schm.* vii. 58, 3. *Dup. Lep.* viii. 315, pl. 231, f 5.
Botys Sophialis, *Herr.-Schæff. Eur. Schm.* iv. 35, 107.
Orobena Sophialis, *Guen. Delt. et Pyral.* 277, 472.

Alps of France. Germany. Switzerland. Styria and Dalmatia.

2. Orobena blandalis.

Mas. *Rufescente-cinerea ; abdomen flavescente-albidum ; alæ anticæ lineis interiore et exteriore nigricantibus sat approximatis albo intus late marginatis, spatio marginali lutescente intus nigricante marginato, macula discali nigricante vaga apud discum pallida ; posticæ flavescente-albidæ, linea exteriore nebulaque marginali nigricantibus, punctis marginalibus nigris.*

Orobena blandalis, *Guen. Delt. et Pyral.* 377, 473.

Palermo.

3. Orobena segetalis.

Botys segetalis, *Herr.-Schæff. Eur. Schm.* f. 132.
Orobena segetalis, *Guen. Delt. et Pyral.* 378, 474.

4. Orobena umbrosalis.

Fusca albo-signata, O. frumentali *valde affinis, fimbria inter venas alba.*

Scopula umbrosalis, *Fisch. v. Rösl.* 274, pl. 92, f. 2.
Botys umbrosalis, *Herr.-Schæff. Eur. Schm.* iv. 35, 108.
Orobena umbrosalis, *Guen. Delt. et Pyral.* 378, 475.

Constantinople.

5. Orobena frumentalis.

Flavescente-cinerea ; alæ anticæ lineis interiore et exteriore undulatis subparallelis sat approximatis intus albo marginatis, fascia exteriore alba maculari, fascia submarginali maculaque apicali albis, fimbria alba cinereo punctata ; posticæ cinereæ, linea submarginali alba. Fœm. *Major ; alæ posticæ disco albido.*

——— ———, *De Vill. Ent. Linn.* ii. 437, 786.

Phalæna-Pyralis frumentalis, *Linn. Syst. Nat.* i. 2, 882, 337; *Faun. Suec.* 1351. *Gmel. ed. Syst. Nat.* i. 5, 2523, 337.
Pyralis triquetralis, *Wien. Verz.* 120, 3.
Pyralis frumentalis, *Götze. Ent. Beytr.* iii. 4, 60, 337.
Pyralis repandalis, *Hübn. Pyral.* 26, 4, pl. 10, f. 64.
Mesographe triquetralis, *Hübn. Verz. Schm.* 354, 3384.
Scopula frumentalis, *Treit. Schm.* vii. 60, 5. *Dup. Lép.* viii. 89, pl. 5, f. 2.
Botys frumentalis, *Herr.-Schæff. Eur. Schm.* iv. 35, 109.
Orobena frumentalis, *Guen. Delt. et Pyral.* 378, 476.

France. Germany. Russia. Sweden.

6. Orobena implicalis.

Fœm. O. frumentali *similima; alæ anticæ stramineo-albæ, atomis fuscis raris, linea interiore costam attingente spatio contiguo pallido vago fasciam non fingente, linea exteriore magis dentata, linea submarginali bene determinata postice furcata, margine exteriore late albo punctis nigris, reniformi umbrata pallido signata; posticæ fere albæ, semihyalinæ, linea submarginali fuscescente antice dilatata postice interrupta et punctiformi.*

Orobena implicalis, *Guen. Delt. et Pyral.* 379, 477.

7. Orobena? Isatidalis.

Cinerea; alæ anticæ spatio bis triente basali margineque exteriore rufescentibus, lituris nigris, lineis interiore et exteriore obliquis, hac guttulari, illa antice abbreviata, margine exteriore punctato, reniformi e annulo magno; posticæ dimidio basali albido, lineis exteriore et marginali guttularibus postice abbreviatis.

Scopula Isatidalis, *Dup. Lep.* viii. 336, pl. 233, f. 3.
Botys Isatidalis, *Herr.-Schæf. Eur. Schm.* iv. 36, 110, pl. 16, f. 110. 111.
Orobena? Isatidalis, *Guen. Delt. et Pyral.* 379, 478.

Corsica. Turkey.

Genus 13. SPILODES.

Corpus gracile. Palpi porrecti, acuti, rostriformes. Palpi maxillares distincti. Antennæ glabræ, gracillimæ. Abdomen attenuatum, alas posticas paullo superans. Pedes graciles, glabri, longiusculi. Alæ longiusculæ; anticæ subacutæ; posticæ margine exteriore subundulato, angulo interiore subproducto.

Uresiphita, p., Loxostege, p., Epicorsia, p., et Sitochroa, p., *Hübn. Verz. Schm.* 352, 353, 355, 356.
Margaritia, *Steph.*
Botys et Scopula, *Treit.*; *Dup.*
Botys, p., *Herr.-Sch.*
Spilodes, *Guen. Delt. et Pyral.* 379.

Body slender. Proboscis of moderate length. Palpi porrect, acute, forming a triangular rostrum, shorter than the breadth of the head. Maxillary palpi distinct. Antennæ bare, very slender. Abdomen attenuated, extending a little beyond the hind wings and with an apical tuft in the male. Legs slender, bare, rather long; spurs long. Wings rather long, moderately broad. Fore wings slightly acute; exterior border moderately oblique. Hind wings with the exterior border slightly undulating; interior angle slightly prolonged.

Europe.

A. Alæ non flavescentes.
  A. Alæ albo notatæ. – – – – sticticalis, *Linn.*
  B. Alæ albo non notatæ.
    a. Alæ anticæ distincte strigatæ aut clathratæ.
      α. Abdomen albo vittatum. – – desertalis, *Hübn.*
      b. Abdomen albo non vittatum.
        i. Alæ anticæ acutæ. – – – clathralis, *Hübn.*
        ii. Alæ anticæ subfalcatæ. – – virescalis, *Guen.*
        iii. Alæ anticæ non acutæ nec falcatæ.
          * Alæ anticæ lituris flavescentibus. comptalis, *Herr.-Sch.*
          ** Alæ anticæ lituris non flavescentibus.
            † Alæ anticæ fusco venosæ. – tessellalis, *Guen.*
            †† Alæ anticæ albo venosæ. – æruginalis, *Hübn.*
    b. Alæ anticæ vix strigatæ.
      α. Alæ obscuriores. – – – – turbidalis, *Treit.*

b. Alæ pallidiores. - - - - gilvalis, *Hübn.*

B. Alæ anticæ flavescentes.

A. Alæ maculatæ. - - - - - lavalis, *Herr.-Sch.*

B. Alæ non maculatæ.

a. Alæ posticæ lineis distinctis.

a. Alæ anticæ striga apicali. - - sulphuralis, *Hübn.*

b. Alæ anticæ striga nulla apicali. - - cinctalis, *Treit.*

b. Alæ posticæ lineis subobsoletis - palealis, *Wien. Verz.*

1. Spilodes sticticalis.

Fuscescente-cinerea, subtus pallida; alæ lineis diffusis cinerascentibus, linea marginali testacea, lineis subtus fuscescentibus.

———, *De Vill, Ent. Linn.* ii. 438, 789.

Phalæna-Pyralis sticticalis, *Linn. Syst. Nat.* i. 2, 883, 340; *Faun. Suec.* 1354. *Gmel. ed. Syst. Nat.* i. 5, 2524, 340.

Phalæna sticticalis, *Fabr. Ent. Syst.* iii. 2, 235, 399.

Pyralis sticticalis, *Gotze, Ent. Beitr.* iii. 4, 62, 340.

Pyralis fuscatis, *Hübn. Pyral.* 29, 19, pl. 1, f. 45.

Uresiphita sticticalis, *Hübn. Verz. Schm.* 353, 3378.

Scopulæ sticticalis, *Treit. Schm.* vii. 64, 9. *Dup. Lép.* viii. 96, pl. 5, f. 5.

Pyralis tetragonalis, *Haw. Lep. Brit.* 385.

Margaritia sticticalis, *Steph. Ill. Brit. Haust.* iv. 59, 29.

Botys sticticalis, *Herr.-Sch. Eur. Schm.* iv. 34, 102.

Spilodes sticticalis, *Guen. Delt. et Pyral.* 381, 480.

a—e. England. From Mr. Stephens' collection.

f. England.

g. Ireland. From Mr. Bouchard's collection.

h—k. Europe. From M. Becker's collection.

2. Spilodes comptalis.

Fusca; thoraæ flavescente-albo fasciatus; abdomen albidum; alæ anticæ strigis, maculis, linea submarginali lineaque marginali exrisa flavescente-albis; posticæ albæ, lunula discali lineisque duabus parallelis sinuatis olivaceis.

Botys comptalis, *Herr.-Sch. Eur. Schm.* iv. 115, pl. 17, f. 118.

Spilodes comptalis, *Guen. Delt. et Pyral.* 381, 481.

Alps, near Digne.

3. Spilodes æruginalis.

Albida; alæ lineis exteriore et submarginali fuscescentibus valde obliquis, margine exteriore fuscescente, fimbria alba; anticæ strigis interioribus fuscescentibus.

Pyralis æruginalis, *Hübn. Pyral.* 26, 7, pl. 20, f. 133.
Loxostege æruginalis, *Hübn. Verz. Schm.* 353, 3365.
Pyralis olivalis, *Hübn. Pyral.* f. 162.
Botys æruginalis, *Treit. Schm.* viii. 121, 32. *Dup. Lép.* viii. 366, pl. 234, f. 8. *Herr.-Sch. Eur. Schm.* iv. 34, 101.
Spilodes æruginalis, *Guen. Delt. et Pyral.* 382, 482.

Hungary.

a. Europe. From M. Becker's collection.

4. Spilodes deserralis.

Fuscescens; thorax albo varius; abdomen albo vittatum; alæ anticæ linea discali fasciisque tribus obliquis albis, lineis tribus obliquis nigris; posticæ albidæ, fuseo marginatæ, guttis submarginalibus obscure fuscis.

Pyralis desertalis, *Hübn. Pyral.* pl. 27, f. 171.
Spilodes desertalis, *Guen. Delt. et Pyral.* 382, 483.
Loxostege desertalis, *Hübn. Verz. Schm.* 352, 3367.

Europe.

5. Spilodes clathralis.

Fusca; abdomen fuscescente-cinereum; alæ anticæ albæ, vittis lineisque exteriore et submarginali cervinis; posticæ albidæ, fascia cinerea abbreviata cinerea fasciisque duabus exterioribus cervinis.

Pyralis clathralis, *Hübn. Pyral.* pl. 26, f. 168.
Loxostege clathralis, *Hübn. Verz. Schm.* 352, 3368.
Botys clathralis, *Treit. Schm.* x. 27. *Eversm. Faun. Volg-Ural.* 461.
Spilodes clathralis, *Guen. Delt. et Pyral.* 382, 484.

South Russia.

6. Spilodes tessellalis.

Fascescente-albida; alæ albidæ; anticæ strigis basalibus, venis exterioribus, lineis exteriore et submarginali parallelis obliquis costaque fuscis; posticæ lineis duabus arcualis cinereis.

Scopula clathralis, *Dup. Lép.* viii. pl. 231, f. 3.
Spilodes tessellalis, *Guen. Delt. et Pyral.* 382, 485.

South France. Corsica. Andalusia

7. Spilodes virescalis.

Virescente-sulphurea; abdomen album; alæ anticæ subfalcatæ, costa obscuriore, lineis exteriore et submarginali viridescente-cinereis, hac sinuata, illa subrecta, fimbria alba; posticæ albæ, lineis exteriore et submarginali nigro-cinereis.

Scopula clathralis, *Dup. Lép.* viii. pl. 236, f. 8, 9.
Botys clathralis? *Herr.-Sch. Eur. Schm.* iv. 38, 117, f. 47, 48.
Spilodes virescalis, *Guen. Delt. et Pyral.* 383, 486.

Valais.

8. Spilodes turbidalis.

Pallide testaceo-cinerea; alæ lineis indistinctis e maculis elongatis pallidioribus; posticæ cinerascentes.

Botys turbidalis, *Treit. Schm.* vii. 119, 30. *Dup. Lép.* viii. 373, pl. 236, f. 4, 5. *Herr.-Sch. Eur. Schm.* iv. 38, 118, f. 75—78.
Scopula flagellalis, *Dup. Lép.* viii. 370, pl. 236, f. 1, 2.
Spilodes turbidalis, *Guen. Delt. et Pyral.* 384, 487.

Germany. Hungary.

a. Europe. From M. Becker's collection.

9. Spilodes gilvalis.

Albido-testacea; alæ anticæ linea submarginali indistincta incompleta cinerascente; posticæ albido-cinereæ, lineis exteriore et submarginali diffusis pallide fuscescentibus.

Pyralis gilvalis, *Hübn. Pyral.* pl. 22, f. 154.
Sitochroa gilvalis, *Hübn. Verz. Schm.* 356, 3412.
Botys gilvalis, *Treit. Schm.* vii. 120, 31.

Botys gilvalis? *Herr.-Sch. Eur. Schm.* iv. 38, 120, f. 72.
Spilodes gilvalis, *Guen. Delt. et Pyral.* 384, 488.

a. Europe. From M. Becker's collection.

10. SPILODES SULPHURALIS.

Pallide citrina ; alæ anticæ linea exteriore perobliqua e cuneis pallide fuscescentibus ; posticæ albidæ, lineis exteriore et submarginali diffusis pallide fuscescentibus.

Pyralis sulphuralis, *Hübn. Pyral.* pl. 26, f. 166, 167.
Sitochroa sulphuralis, *Hübn. Verz. Schm.* 356, 3411.
Botys sulphuralis, *Treit. Schm.* vii. 118, 29, *Dup. Lép.* viii. 368, pl. 235, f. 7. *Eversm. Faun. Volg-Ural.* 461. *Herr.-Sch. Eur. Schm.* iv. 38, 119.
Spilodes sulphuralis, *Guen. Delt. et Pyral.* 385, 489.

a. Europe. From M. Becker's collection.
b. Germany. From M. Heminghoffen's collection.

11. SPILODES LAVALIS.

Flavo-straminea, nitida ; alæ serie duplici macularum inter venas ; anticæ solum e pagina inferiore perlucentes.

Botys lavalis, *Herr.-Sch. Eur. Schm.* iv. 37, 116.
Spilodes lavalis, *Guen. Delt. et Pyral.* 385, 490.

Europe.

12. SPILODES PALEALIS.

Pallide sulphurea ; alæ subtus lineis fuscis latis postice obsoletis ; anticæ linea exteriore subobsoleta ; posticæ albæ, lineis duabus postice obsoletis cinereis, 2a marginali.

——— ———, *Geoff. Ins.* ii. 166, 112. *DeVill. Ent. Linn.* iv. 517.
Pyralis palealis, *Wien. Verz.* 123, 27. *Ill. N. Ausg. dess.* ii. 23, 27 ; *Mag.* iv. 6, 27. *Gotze, Ent. Beitr.* iii. 4, 72, 55. *Hübn. Pyral.* 24, 13, pl. 11, f. 70. *Haw. Lep. Brit.* 378.
Phalæna palealis, *Fabr. Ent. Syst.* iii. 2, 231, 382.
Phalæna flaveolata, *Berl. Mag.* iv. 6, 604, 63.
Sitochroa palealis, *Hübn. Verz. Schm.* 356, 3409.

Botys palealis, *Treit. Schm.* vii. 116, 28. *Dup. Lép.* viii. 156, pl. 220, f. 5, 6. *Herr.-Sch. Eur. Schm.* iv. 39, 122.
Margaritia palealis, *Steph. Ill. Brit. Haust.* iv. 50, 8.
Pyralis selenalis, *Hübn. Pyral.* f. 177.
Botys selenalis, *Dup. Lép.* viii. 361, pl. 235, f. 4.
Spilodes palealis, *Guen. Delt. et Pyral.* 385, 491.

a. England. From Mr. Stephens' collection.
b. England. From Mr. Bouchard's collection.
c, *d*. England. From Mr. Chant's collection.
e, *f*. England.
g, *h*. Europe. From M. Becker's collection.
i. Ukraine. Presented by Dr. Dowler.

13. Spilodes cinctalis.

Lutescens ; abdomen albidum ; alæ anticæ albidæ, lineis interiore exteriore et submarginali denticulatis, lituris discalibus costaque lutescentibus ; posticæ albidæ, lineis duabus; quatuor subtus lituris fuscis.

Pyralis verticalis? *Linn.*; *Fabr.*; *Gmel.* See p. 557.
Pyralis limbalis, *Schr. Faun. Boic.* ii. 2, 64, 1717. *Hübn. Pyral.* 23, 8, pl. 11, f. 72, 73. *Haw. Lep. Brit.* 378.
Botys cinctalis, *Treit. Schm.* vii. 97, 14. *Dup. Lép.* viii. 124, pl. 7, f. 5, 6. *Herr.-Sch. Eur. Schm.* iv. 37, 115.
Margaritia cinctalis, *Steph. Ill. Brit. Haust.* iv. 49, 6.
Spilodes cinctalis, *Guen. Delt. et Pyral.* 386, 492.

a—*h*. England. From Mr. Stephens' collection.
i—*n*. England.

North America.

14. Spilodes? Nisœecalis.

Mas. *Pallide cervina, gracilis ; oculi albo cincti ; palpi porrecti, breves, vix lati, articulo 3o conico minuto ; antennæ robustæ, subpubescentes ; abdomen alas posticas paullo superans, segmentis albo marginatis ; alæ albido-cinereæ, cervino subconspersæ, lineis interiore et exteriore fuscescentibus denticulatis, hac valde flexa, punctis marginalibus fuscescentibus ; anticæ acutæ, orbiculari et reniformi fuscescentibus, hac e striga arcuata.*

Male. Pale fawn-colour, slender, white beneath. Head white about the eyes. Palpi porrect, short, hardly broad; third joint conical, acute, not more than one-fourth of the length of the second. Antennæ stout, very minutely pubescent. Abdomen extending a little beyond the hind wings; hind borders of the segments white. Wings whitish cinereous, slightly and minutely speckled with fawn-colour; interior and exterior lines brownish, denticulated, the latter much bent; marginal points brownish. Fore wings acute; orbicular and reniform marks brownish, the latter forming a curved streak. Length of the body 5 lines; of the wings 12 lines.

This species has much the appearance of a *Botys.*

a. Nova Scotia. From Lieut. Redman's collection.

15. Spilodes Helvialis.

Fœm. *Ochracea, sat gracilis; oculi albo cincti; palpi cervini, oblique ascendentes, subtus basi albi, non longi nec lati; palpi maxillares graciles, valde distincti; abdomen albidum, segmentis albo marginatis; alæ amplæ, nitentes; anticæ acutæ, flavescente-albæ, subtus fuscescente nebulosæ lituris discalibus lineaque incompleta exteriore obscurioribus; posticæ albæ, apud costam subtus subflavescentes.*

Female. Yellow, slender, white beneath. Head luteous in front, white about the eyes. Palpi luteous, obtuse, obliquely ascending, not long nor broad; third joint minute. Antennæ rather long. Abdomen hardly extending beyond the hind wings; hind borders of the segments white. Wings not broad; interior and exterior lines luteous, oblique; exterior border slightly luteous. Fore wings hardly acute; costa luteous; exterior line slightly dislocated in the middle; reniform mark forming a curved streak. Length of the body 4 lines; of the wings 10 lines.

a. United States. Presented by E. Doubleday, Esq.

South America.

16. Spilodes Palindialis.

Fœm. *Pallide ligneo-fusca; alæ anticæ lineis maculaque discali subobsoletis, linea costali lineaque marginali albis, hac postice nigro marginata, puncto apicali nigro; posticæ pallidiores, semihyalinæ, margine lato nigricante-cinereo.*

Spilodes Palindialis, *Guen. Delt. et Pyral.* 380, 479.
Brazil.

Africa.

17. Spilodes Nitetisalis.

Mas et fœm. *Flavescente-alba; caput pallide cervinum; palpi cervini, porrecti, latiusculi, non longi, subtus albi; antennæ glabræ; thoracis latera antica ochracea; alæ amplæ, lineis interiore et exteriore cinerascentibus, hac undulata, illa indistincta; anticæ acutæ, costæ dimidio basali ochraceo, linea exteriore flexa, orbiculari et reniformi indistinctis.* Mas.—*Abdomen alas posticas sat superans.* Fœm.—*Abdomen alas posticas vix superans.*

Male and female. Yellowish white, slender. Head pale fawn-colour above. Palpi fawn-colour above, porrect, rather broad, not long; third joint very minute. Antennæ smooth. Thorax ochraceous on each side in front. Wings ample; interior and exterior lines grayish; the former indistinct; the latter undulating. Fore wings acute; costa ochraceous for about half the length from the base; exterior line bent; orbicular and reniform marks indistinct. *Male.* — Abdomen extending rather beyond the hind wings. *Female.* — Abdomen hardly extending beyond the hind wings. Length of the body 5½—7 lines; of the wings 12—14 lines.

a. Congo. Presented by Sir J. Richardson.
b. North Hindostan. Presented by Gen. Hearsay.

Country unknown.

18. Spilodes? Dasconalis.

Fœm. *Flava, gracilis; caput antice luteum; oculi albo cincti; palpi lutei, obtusi, oblique ascendentes, subtus albi, non longi nec lati; antennæ longiusculæ; abdomen alas posticas vix superans, segmentis albo marginatis; alæ non latæ, lineis interiore et exteriore luteis obliquis, margine exteriore subluteo; anticæ vix acutæ, costa lutea, linea exteriore rupta, reniformi e striga arcuata.*

Female. Ochraceous, rather slender. Head white about the eyes. Palpi fawn-colour, obliquely ascending, not long nor broad, white beneath towards the base; third joint minute, concealed by

the hairs. Maxillary palpi slender, very distinct. Abdomen whitish, not extending beyond the hind wings; hind borders of the segments white. Wings ample, shining. Fore wings acute, yellowish white; costa ochraceous towards the base; under side clouded with brownish in the disk, with the discal marks and an incomplete exterior line of a darker brown. Hind wings white, slightly yellowish beneath along the costa. Length of the body 6 lines; of the wings 15 lines.

a. ———? Presented by E. Doubleday, Esq.

Genus 14. SCOPULA.

Corpus gracile. Palpi porrecti, rostriformes, squamoso-hirsuti. Palpi maxillares breves, erecti, subpenicillati. Antennæ glabræ, submoniliformes. Abdomen attenuatum. Pedes graciles, glabri, longiusculi. Alæ non aut vix latæ; anticæ subacutæ. *Mas.*— Abdomen subconicum, apice fasciculatum. *Fœm.* — Abdomen carinatum, cylindrico-conicum.

Scopula, *Schr. Faun. Boic.* ii. 162; *Treit.*; *Guen. Delt. et Pyral.*
Loxostege, p., Uresiphita, p., Mesographe, p., Hapalia, p., Epicorsia, p., Homochroa, p., et Ocbia, p., *Hübn. Verz. Schm.* 352, 353, 354, 355, 358, 362.
Botys, p., Scopula et Udea, *Dup.*
Margaritia, p., *Steph.*
Botys, p., *Herr.-Sch.*

Body slender. Proboscis short, distinct. Palpi porrect, rostriform, squamous-hirsute, a little longer or shorter than the breadth of the head. Maxillary palpi short, distinct, erect, forming a little slightly curved pencil. Antennæ moderately long, slightly moniliform, quite bare. Abdomen atttenuated, subconical and tufted at the tip in the male, cylindric-conical and keeled in the female. Legs slender, bare, rather long; spurs long. Wings hardly or not broad. Fore wings slightly acute; exterior border slightly or moderately oblique.

Europe.

A. Alæ anticæ albo maculatæ. - - - olivalis, *Wien. Verz.*
B. Alæ anticæ albo non maculatæ.
A. Alæ anticæ margine obscuriore.
a. Alæ non pallidæ.

a. Alæ pallidiores.
i. Statura major. - - - prunalis, *Wien. Verz.*
ii. Statura minor. - - - inquinatalis, *Zell.*
b. Alæ obscuriores. - - - - scorialis, *Zell.*
B. Alæ pallidæ. - - - - - institalis, *Hübn.*

B. Alæ anticæ margine non obscuriore.
A. Alæ anticæ non ferrugineæ nec flavescentes.
a. Alæ anticæ punctis costalibus nigris.
decrepitalis, *Herr.-Sch.*
b. Alæ anticæ punctis nullis costalibus.
i. Alæ anticæ maculis bene determinatis.
* Alæ anticæ cinereæ. - murinalis, *Fisch-Rösl.*
** Alæ anticæ albæ aut albidæ.
† Alæ posticæ non marginatæ. - lutealis, *Haw.*
†† Alæ posticæ marginatæ. - elutalis, *Wien. Verz.*
††† Alæ posticæ latissime marginatæ.
nyctemeralis, *Hübn.*
ii. Alæ anticæ maculis non bene determinatis.
* Alæ anticæ macula pallida. alpinalis, *Wien. Verz.*
** Alæ anticæ macula nulla pallida.
† Alæ anticæ striga submarginali nigra.
ablutalis, *Eversm.*
†† Alæ anticæ striga nulla nigra.
‡ Alæ posticæ fimbria alba. - nebulalis, *Hübn.*
‡‡ Alæ posticæ fimbria fuscescente.
§ Alæ anticæ margine exteriore rotundato.
æncalis, *Wien. Verz.*
§§ Alæ anticæ margine exteriore subrecto.
mundalis, *Guen.*

B. Alæ anticæ ferrugineæ aut flavescentes.
a. Alæ anticæ ferrugineæ.
i. Alæ anticæ linea exteriore denticulata.
ferrugalis, *Hübn.*
ii. Alæ anticæ linea exteriore nulla denticulata.
numeralis, *Hübn.*
b. Alæ anticæ testaceo-rufescentes.
i. Alæ anticæ lituris minus determinatis. fulvalis, *Hübn.*
ii. Alæ anticæ lituris plus determinatis.
dispunctalis, *Guen.*
c. Alæ anticæ ochraceo-flavæ. - austriacalis, *Herr.-Sch.*
d. Alæ anticæ flavescente-testaceæ. - argillacealis, *Zell.*
e. Alæ anticæ viridescente-sulphureæ.
rhododendronalis, *Dup.*
f. Alæ anticæ sulphureo-albidæ. - Donzelalis, *Guen.*

1. SCOPULA ÆNEALIS.

Æneo-cervina, unicolor, nitens ; caput et thoracæ anticus lutea,

——— ———, *De. Vill. Ent. Linn.* iv. 517.

Pyralis ænealis, *Wien. Verz.* 123, 26. *Ill. N. Ausg. dess.* ii. 22, 26 ; *Mag.* iv. 6, 26. *Götze, Ent. Beytr.* iii. 4, 71, 54. *Hübn. Pyral.* 30, 25, pl. 7, f. 46.

Phalæna ænealis, *Fabr. Ent. Syst.* iii. 2, 231, 380.

Pyralis nigralis, *Schr. Faun. Boic.* ii. 2, 65, 1720.

Pyralis rufimitralis, *Hübn. Pyral.* 30, 26, pl. 18, f. 120.

Homochroa ænealis, *Hübn. Verz. Schm.* 358, 3433.

Scopula ænealis, *Treit. Schm.* vii. 72, 16. *Dup. Lep.* viii. 359, pl. 235, f. 2, 3. *Guen. Delt. et Pyral.* 389, 493.

Botys ænealis, *Herr.-Schæff. Eur. Schm.* iv. 25, 61.

a. Europe. From M. Becker's collection.

2. SCOPULA MUNDALIS.

Testaceo-cinered ; alæ anticæ trigonæ, elongatæ, apice obtusæ, margine exteriore subrecto, lineis interiore et exteriore obscurioribus subparallelis vix distinctis, hac extus pallido marginata, reniformi pallida vix distincta, fimbria basi pallido lineata ; posticæ pallidiores, linea denticulata subobsoleta margineque exteriore obscurioribus.

Scopula mundalis, *Guen. Delt. et Pyral.* 389, 494.

Digne.

3. SCOPULA MURINALIS.

Cinerea, fusco conspersa ; alæ anticæ linea exteriore denticulata liturisque discalibus obsolete fuscis ; posticæ fusco-cinereæ, innotatæ.

Botys murinalis, *Herr.-Schæff. Eur. Schm.* iv. 25, 65.

Scopula murinalis, *Fisch.-Rösl. Schm.* 276, pl. 92, f. 3. *Guen. Delt. et Pyral.* 389, 495.

Mont Simplon.

4. SCOPULA ALPINALIS.

Cervino-cinerea ; abdomen cinereum ; alæ anticæ apice subrotundatæ ; posticæ cinereæ, fimbria alba.

——— ———, *DeVill. Ent. Linn.* iv. 516.
Pyralis alpinalis, *Wien. Verz.* 123, 24. *Ill. N. Ausg. dess.* ii, 22, 24. *Götze, Ent. Beytr.* iii. 71, 52. *Hübn. Pyral.* 26, 8, pl. 10, f. 63; pl. 27, f. 175, 176.
Phalæna alpinalis, *Fabr. Ent. Syst.* iii. 2, 228, 370.
Uresiphita alpinalis, *Hübn. Verz. Schm.* 353, 3377.
Scopula alpinalis, *Treit. Schm.* vii. 69, 13. *Dup. Lep.* viii. 307, pl. 231, f. 1. *Guen. Delt. et Pyral.* 390, 496.
Botys alpinalis, *Herr.-Schæff. Eur. Schm.* iv. 31, 91, f. 7—10.
Margaritia alpinalis, *Steph. Ill. Brit. Haust.* iv. 58, 28.
Scopula maculalis? *Zett. Ins. Lapp.* 971, 4.

a, *b*. Scotland. From Mr. Stevens' collection.
c—*g*. Scotland. From Mr. Stephens' collection.
h. Scotland. From Mr. Foxcroft's collection.
i. Scotland. From Mr. Turner's collection.

5. Scopula ablutalis.

Lutescens; alæ anticæ striga posteriore margineque albidis; posticæ albidæ, umbra media et linea submarginali obsoletis.

Scopula ablutalis, *Eversm. Faun. Voly. Ural.* 461, 17. *Guen. Delt. et Pyral* 391, 497.
Botys ablutalis. *Herr.-Schæff. Eur. Schm.* iv. 36, pl. 14, f. 94.

Region of the Volga.

6. Scopula austriacalis.

Pallidissime ochraceo-flava; alæ posticæ cinereo tinctæ, linea submarginali nigricante.

Botys austriacalis, *Herr.-Schæff. Eur. Schm.* f. 142.
Scopula austriacalis, *Guen. Delt. et Pyral.* 391, 498.

7. Scopula rhododendronalis.

Viridescente-sulphurea; alæ anticæ elongatæ, fimbria apice alba, subtus nigricantes, margine exteriore recto.

Botys rhododendronalis, *Dup. Lep.* viii. 363, pl. 235, f. 5. *Herr.-Schæff. Eur. Schm.* iv. 25, 63, f. 112, 113?
Scopula rhododendronalis, *Guen. Delt. et Pyral.* 391, 499.

Piedmont.

8. Scopula Donzelalis.

Sulphureo-albida ; thorax rufescens ; alæ anticæ linea exteriore incompleta lunulaque discali pallide fuscis subobsoletis, atomis apicalibus nigricantibus, subtus nigro-cinereæ, fimbria alba ; posticæ albæ, cinereo conspersæ.

Scopula Donzelalis, *Guen. Delt. et Pyral.* 392, 500.

Mont Dore, France.

9. Scopula nebulalis.

Pallidissime cervina ; alæ anticæ linea exteriore denticulata, indistincta cinerea ; posticæ æneo-cinereæ, fimbria albida.

Pyralis nebulalis? *Hübn. Pyral.* f. 51.
Uresiphita nebulalis? *Hübn. Verz. Schm.* 353, 3374.
Botys nebulalis, *Dup. Lep. Suppl.* 395, pl. 82, f. 3. *Herr.-Schæff. Eur. Schm.* iv. 33, 97, f. 11, 12.
Scopula nebulalis, *Guen. Delt. et Pyral.* 392, 501.
Scopula pinctalis? *Zett. Ins. Lapp.* 970, 3.

a. Germany. From M. Heminghoffen's collection.

10. Scopula lutealis.

Albida ; caput et thoracis latera antica testacea ; palpi fusci, subtus albi ; alæ macula apicali fusca ; anticæ costa, annulis duobus magnis lineaque exteriore flexa testaceis, linea submarginali indistincta ; posticæ linea exteriore diffuse fuscescente.

Pyralis lutealis? *Hübn. Pyral.* f. 145.
Pyralis lutealis, *Haw. Lep. Brit.* 380.
Hapalia lutealis? *Hübn. Verz. Schm.* 355, 3398.
Scopula languidalis, *Eversm. Bull. Mosc.* 1842, 559 ; *Faun. Volg.-Ural*, 457.
Margaritia institialis, *Steph. Ill. Brit. Haust.* iv. 56, 24.
Scopula pascualis, *Lien. Isis*, 1846, 206.
Botys pascualis, *Herr.-Schæff. Eur. Schm.* iv. 41, f. 64—66.
Scopula etiahs, *Guen. Cat. Brit. Lep. Steph. Cat. Lep. Brit. Mus.* 244.
Scopula lutealis, *Guen. Delt. et Pyral.* 392, 502.

France. Switzerland. Russia.

a—k. England. From Mr. Stephens' collection.
l—o. England. From Mr. Chant's collection.
p. England. From Mr. Foxeroft's collection.
q. England.

11. SCOPULA INSTITALIS.

Pallide citrina ; alæ anticæ lituris exterioribus costalibus margineque exteriore roseo-cervinis, linea exteriore tenui denticulata incompleta fuscescente, orbiculari et reniformi e annulis duobus magnis cervinis, hac excavata ; posticæ pallidiores, lineis exteriore et submarginali cinereis postice obsoletis, punctis marginalibus cinereis.

Pyralis institalis, *Hübn. Pyral.* f. 182.
Mesographe institalis, *Hübn. Verz. Schm.* 354, 3387.
Scopula institalis, *Dup. Lép. Suppl.* 379, pl. 80, f. 8. *Guen. Delt. et Pyral.* 393, 503.
Botys institalis, *Herr.-Schæff. Eur. Schm.* iv. 41, 132.

Var. *Alæ lituris discalibus obsoletis.*

Scopula Ferraralis, *Lefebvre. Dup. Lep.* viii. 317, pl. 231, f. 6.
Botys Ferraralis, *Herr.-Schæff. Eur. Schm.* iv. 41, 133.

France. Germany. Italy. Hungary.

a—d. Europe. From M. Becker's collection.

12. SCOPULA OLIVALIS.

Pallide cinereo-fuscescens, subtus albida ; alæ anticæ strigis parvis albidis, costa subapicali et margine exteriore albis fusco punctatis, macula apud reniformem subquadrata alba ; posticæ albidæ, margine exteriore fuscescente.

Pyralis olivalis, *Wien. Verz.* 125, 21. *Ill. N. Ausg. dess.* ii. 21. *Götze, Ent. Beytr.* iii, 4, 71, 50.
Phalæna nivealis? *Fabr. Ent. Syst.* iii. 2, 232, 388
Pyralis nivealis, *Haw. Lep. Brit,* 385.
Pyralis umbralis, *Hübn. Pyral.* 27, 9, pl. 8, f. 52.
Loxostege olivalis, *Hübn. Verz. Schm.* 352, 3365.
Scopula olivalis, *Treit. Schm.* vii. 65, 10. *Dup. Lep.* viii. 309, pl. 231, f. 2. *Guen. Delt. et Pyral.* 393, 504.
Margaritia olivalis, *Steph. Ill. Brit. Haust.* iv. 59, 30.
Botys olivalis, *Herr.-Schæff. Eur. Schm.* iv. 42, 135.

a—h. England. From Mr. Stephens' collection.
i. England. From Mr. Foxcroft's collection.
j. England.
k, l. Europe. From M. Becker's collection.

13. Scopula elutalis.

Albida ; alæ anticæ linea exteriore flexa lineaque submarginali subrecta fuscescentibus, macula discali cinerea, puncto postico punctisque submarginalibus nigris ; posticæ lineis duabus fuscescentibus, fascia marginali fusca.

Pyralis elutalis, *Wien. Verz.* 121, 10. *Ill. N. Ausg. dess.* ii. 13, 10. *Götze, Ent. Beytr* iii. 4, 70, 44.
Phalæna elutalis, *Fabr. Ent. Syst.* iii. 2, 232, 389.
Pyralis albidalis, *Hübn. Pyral.* 27, 10, pl. 18, f. 118.
Uresiphita elutalis, *Hübn. Verz. Schm.* 353, 3380.
Scopula elutalis, *Fisch.-Rösl. Schm.* 272, pl. 92, f. 1. *Guen. Delt. et Pyral.* 394, 505.
Botys elutalis, *Herr.-Schæff. Eur. Schm.* iv. 40, 127, pl. 3, f. 16.

Germany. Hungary. Lapland.

14. Scopula prunalis.

Cinerea ; alæ lineis denticulatis vix distinctis margineque exteriore saturatioribus, linea marginali nigro-cinerea ; anticæ reniformi e lineola arcuata. Var. — *Fuscescente-cinerea ; alæ anticæ lineis exteriore et marginali e punctis atris, reniformi integra angusta angulata.*

——— ———, *De Vill. Linn. Ent.* iv. 517.
Pyralis prunalis, *Wien. Verz.* 121, 11. *Illig. N. Ausg. dess.* ii. 13, 11. *Götze, Ent. Beytr.* iii. 4, 70, 45.
Pyralis leucophæalis, *Hübn. Pyral.* 27, 11, pl. 12, f. 77.
Uresiphita prunalis, *Hübn. Verz. Schm.* 353, 3376.
Pyralis nebulalis, *Haw. Lep. Brit.* 386.
Scopula prunalis, *Treit. Schm.* vii. 55, 2. *Dup. Lép.* viii. 91, pl. 215, f. 3. *Fisch.-Rösl. Schm.* 272. *Guen. Delt. et Pyral.* 394, 506.
Margaritia prunalis, *Steph. Ill. Brit. Haust.* iv. 60, 31.
Botys prunalis, *Herr.-Sch. Eur. Schm.* iv. 40, 128.

a—j. England. From Mr. Stephens' collection.
k—q. England.
r, s. Europe. From M. Becker's collection.

15. SCOPULA SCORIALIS.

S. prunali *paullo minor, obscurior, lituris magis determinatis.*

Scopula scorialis, *Zeller, Isis,* 1847, 566. *Guen. Delt. et Pyral.* 394, 507.

Botys scorialis, *Herr.-Schæff. Eur. Schm.* iv. 40, 129.

Sicily.

16. SCOPULA NYCTEMERALIS.

Alba ; alæ fusco conspersæ, fascia marginali sinuata obscure fusca ; anticæ fusco bimaculatæ ; posticæ macula unica fusca.

Pyralis nyctemeralis, *Hübn. Pyral,* pl. 22, f. 148.

Epicorsia nyctemeralis, *Hübn. Verz. Schm.* 355, 3399.

Scopula nyctemeralis, *Treit. Schm.* vii. 71, 15. *Guen. Delt. et Pyral.* 395, 508.

Botys nycthemeralis, *Herr.-Schæff. Eur. Schm.* iv. 42, 136.

Germany. Sweden.

17. SCOPULA INQUINATALIS.

S. prunali *multo minor ; alæ obtusiores, lætius cinereo coloratæ.*

Scopula inquinatalis, *Zeller, Isis,* 1846, 205. *Guen. Delt. et Pyral.* 395, 510.

Botys inquinatalis, *Herr.-Schæff. Eur. Schm.* iv. 41, 130.

Livonia.

18. SCOPULA ARGILLACEALIS.

Albo-cinerea ; alæ nigro-cinereo late marginatæ ; anticæ reniformi e punctis duobus nigris.

Scopula argillacealis, *Zeller, Isis,* 1847, 579. *Guen. Delt. et Pyral.* 396, 511.

Botys argillacealis, *Herr.-Schæff. Eur. Schm.* iv. 396, 511.

Sicily.

19. SCOPULA DISPUNCTALIS.

S. fulvali *affinis, pallidior, magis cinerea, lituris plus determinatis ; posticæ subtus albæ, punctis duobus discalibus, umbraque discali fuscis.*

Botys bipunctalis, *Herr.-Schæff. Eur. Schm.* f. 140, 141.

Scopula dispunctalis, *Guen. Delt. et Pyral.* 396, 512.

20. Scopula fulvalis.

Pallide testaceo-rufescens; alæ anticæ acutæ, costa margineque exteriore obscurioribus, hoc apicem versus truncato, lineis interiore et exteriore bene determinatis, hac flexa, orbiculari et reniformi magnis non annularibus, illa rotundata; posticæ nigricante-cinereæ, rufescente tinctæ, linea media indistincta.

Pyralis fulvalis, *Hübn. Pyral.* pl. 22, f. 147.
Hapalia fulvalis, *Hübn. Verz. Schm.* 355, 3393.
Pyralis squalidalis? *Hubn. Pyral.* f. 144.
Pyralis polygonalis? *Wien. Verz.* 121, 8.
Phalæna polygonalis?? *Fabr. Ent. Syst.* iii. 2, 234, 397.
Botys fulvalis, *Treit. Schm.* vii. 95, 12. *Dup. Lép.* vii. 144, pl. 219, f. 3. *Herr.-Sch. Eur. Schm.* iv. 39, 124.
Scopula fulvalis, *Fisch.-Rösl.* 10, pl. 6, f. 3?; 211, pl. 75, f. 1? *Guen. Delt. et Pyral.* 396, 513.

France. Hungary. Sicily.

21. Scopula ferrugalis.

Testaceo-cinerea; abdomen fuscescente-cinereum, albo fasciatum; alæ punctis marginalibus nigris; anticæ lineis denticulatis incompletis cinereis, non bene determinatis, nebulis duabus cinereis, una subapicali, altera apud reniformem, orbiculari e annulo oblongo cinereo; posticæ cinereæ, margine exteriore fuscescente.

Pyralis ferrugalis, *Hübn. Pyral.* 27, 13, pl. 9, f. 54; pl. 23, f. 150. *Haw. Lep. Brit.* 382.
Botys ferrugalis, *Treit. Schmett.* vii. 94, 11. *Dup. Lép.* viii. 138, pl. 218, f. 7.
Margaritia ferrugalis, *Steph. Ill. Brit. Haust.* iv. 53, 17.
Scopula ferrugalis, *Guen. Delt. et Pyral.* 398, 515.

Europe. Madeira.

a—j. England. From Mr. Stephens' collection.
k—q. England. From Mr. Bouchard's collection.
r, s. England.
t. Europe. From M. Becker's collection.
v—z. Nice. From Dr. Leach's collection.

22. SCOPULA NUMERALIS.

Pallide ferruginea; alæ anticæ maculis duabus parvis fuscis; posticæ cinereo-fuscæ.

Pyralis numeralis, *Hübn. Pyral.* 19, 8, pl. 14, f. 89.
Oebia numeralis, *Hübn. Verz. Schm.* 362, 3463.
Nymphula numeralis, *Treit. Schm.* vii. 129, 3. *Dup. Lép.* viii. 164, pl. 221, f. 3, 4.
Botys numeralis, *Herr.-Sch. Eur. Schm.* iv. 39, 125, f. 79.
Scopula numeralis, *Guen. Delt. et Pyral.* 399, 518.

South Europe. Asia Minor.

23. SCOPULA DECREPITALIS.

Albido-cinerea; alæ punctis marginalibus nigris; anticæ lineis denticulatis indistinctis obscurioribus, punctis costalibus subapicalibus nigris; posticæ albidæ, litura discali, linea exteriore margineque cinereis.

Botys decrepitalis, *Herr.-Sch. Eur. Schm.* iv. 40, 126.
Scopula decrepitalis, *Guen. Delt. et Pyral.* 399, 519.

Alps.

a—f. Scotland. Presented by T. Chapman, Esq.

24. SCOPULA? ——— ?

Alæ subcinereæ, maculis tribus discalibus, una cruciformi, fasciaque postica nigro-fuscis; posticæ lividæ margine obscuriores.

Scopula numeralis, *Zett. Ins. Lapp.* 971, 5.

Lapland.

North America.

25. SCOPULA ILLIBALIS.

Fœm. *Cana; alæ fusco subconspersæ; anticæ maculis duabus costalibus fuscis, minore antemedia, majore postmedia; posticæ macula discali fusca.*

Hapalia illibalis (Pyralis vulgaris, Palpita tenera), *Hübn. Samml. Exot. Schmett.* i. 19, 48, f. 95, 96; *Verz. Schm.* 355, 3396.
Scopula illibalis, *Guen. Delt. et Pyral.* 395, 509.

Georgia. Florida.

26. Scopula rubigalis.

S. ferrugali *simillima; alæ anticæ paullo breviores, umbra apicali obliqua nulla, linea exteriore minus dentata; posticæ apud marginem minus obscuræ, linea subtus magis determinata.*

If this species be considered as distinct from *S. ferrugalis*, many North-American representatives of European Lepidoptera must form new species.

Scopula rubigalis, *Guen. Delt. et Pyral.* 398, 516.

a—d. United States (New York and Illinois). Presented by E. Doubleday, Esq.

27. Scopula Orasusalis.

Mas. *Ferrugineo-fulva, subtus testacea; palpi porrecti, acuti, longiusculi, sat graciles, subtus basi albi; antennæ robustæ, valde pubescentes, vix serratæ; pectus album; abdomen alas posticas vix superans; alæ anticæ vix acutæ, lineis interiore et exteriore fuscescentibus undulatis, hac costam versus dilatata, reniformi e striga fuscescente; posticæ pallidiores, lineis non bene determinata.*

Male. Ferruginous-tawny, testaceous beneath. Palpi porrect, acute, rather long and slender, white beneath towards the base. Antennæ stout, very pubescent, hardly serrated. Pectus white, hardly extending beyond the hind wings. Fore wings hardly acute; interior and exterior lines brownish, undulating, the latter dilated towards the costa; reniform mark represented by a brownish streak; marginal line brownish, very slender; fringe interlined. Hind wings paler and with less distinct lines. Length of the body 4 lines; of the wings 10 lines.

a. Nova Scotia. From Lieut. Redman's collection.

28. Scopula Nestusalis.

Cinereo-fusca, subtus alba; palpi porrecti, breves, lati; antennæ nigricantes; alæ sat angustæ; anticæ apice subrotundatæ, lineis interiore et exteriore obscurioribus denticulatis, hac flexa extus diffuse pallido marginata, punctis marginalibus obscuris indistinctis, orbiculari et reniformi fuscis, hac subquadrata; posticæ pallidiores, linea exteriore valde indistincta.

Cinereous-brown, white beneath. Palpi porrect, short, broad, white beneath. Antennæ blackish. Wings rather narrow. Fore wings somewhat rounded at the tips; interior and exterior lines darker, denticulated; the latter bent, diffusedly pale bordered on its outer side; marginal points dark, indistinct; orbicular and reniform marks brown, the latter subquadrate. Hind wings a little paler, with a very indistinct exterior line. Length of the body 3? lines; of the wings 8 lines.

a. United States. Presented by E. Doubleday, Esq.

29. SCOPULA THOONALIS.

Mas. *Fusca, sat gracilis; palpi porrecti, subincumbentes, non lati, articulo 3o elongato; antennæ robustæ, subpubescentes; pectus album; alæ angustæ, concolores, lituris nullis aut fere obsoletis; anticæ apice rotundatæ, margine exteriore perobliquo.*

Male. Brown, rather slender, paler beneath. Palpi porrect, rather slender, as long as the breadth of the head, slightly curved downwards; third joint elongate-conical. Antennæ stout, minutely pubescent. Pectus white. Wings narrow, with none or almost obsolete markings. Fore wings rounded at the tips; exterior border very oblique. Hind wings not paler than the fore wings. Length of the body 3? lines; of the wings 7 lines.

a. United States. Presented by E. Doubleday, Esq.

West Indies.

30. SCOPULA DIOTIMEALIS.

Fœm. *Cervina, sat gracilis, subtus albida; oculi albo cincti; palpi porrecti, breves, non luti; palpi maxillares distincti; abdomen testaceo-albidum; alæ sat angustæ; anticæ apice subrotundatæ, lineis interiore et exteriore testaceis undulatis, linea interiore intus diffusa, linea exteriore denticulata extus diffusa, orbiculari guttulari et reniformi maculari fuscis, punctis marginalibus nigricantibus; posticæ albido-cinereæ, linea exteriore cinerea indistincta extus testaceo marginata, linea marginali testacea.*

Female. Fawn-colour, rather slender, whitish beneath. Head white about the eyes. Palpi porrect, short, not broad, white beneath.

towards the base. Maxillary palpi distinct. Abdomen testaceous-whitish, not extending beyond the hind wings. Wings rather narrow. Fore wings somewhat rounded at the tips; interior and exterior lines testaceous, undulating; interior line diffuse on the inner side; exterior line denticulated, diffuse on the outer side; marginal points blackish; orbicular and reniform marks brown, the former guttular, the latter macular. Hind wings whitish cinereous; exterior line cinereous, indistinct, testaceous-bordered on the outer side; a testaceous marginal line. Length of the body 3 lines; of the wings 10 lines.

a—c. St. Domingo. From Mr. Tweedie's collection.

South America.

31. Scopula decoralis.

Mas. *Flava; palporum articulus 2us securiformis, 3us distinctissimus 2o ante apicem connexus; alæ ferrugineo conspersæ, spatio lato marginali ferrugineo, lineola marginali alba nigro marginata; anticæ maculis quinque discalibus quadratis albis nigro marginatis, orbiculari et reniformi violaceo iridescentibus nigro marginatis, hac longissima, illa magna, macula apud reniformem spatulata; posticæ macula discali violaceo-iridescente nigro marginata fasciolaque alba contiguis.*

Scopula decoralis, *Guen. Delt. et Pyr.* 397, 514.

Brazil.

32. Scopula Helvusalis.

Fœm. *Obscure ochracea, gracilis; palpi porrecti, lati, brevissimi, subtus albi; alæ anticæ acutæ, striga brevi lata albida reniformem elongatam nigricantem annularem subincludente, strigis nonnullis exterioribus albidis parallelis, linea marginali nigra tenui, fimbria cinerea; posticæ albidæ, puncto discali fusco, linea marginali antice e punctis cinerea; posticæ albidæ puncto discali fusco, linea marginali anticæ punctulari, fimbria cinerea postice alba.*

Female. Dull ochraceous, slender, cinereous beneath. Palpi porrect, broad, very short, white beneath. Abdomen hardly extending beyond the hind wings. Fore wings acute, with a broad, short, whitish streak, almost enclosing the reniform mark, which is

represented by an elongated blackish ringlet; three or four exterior parallel whitish streaks; marginal line black, slender; fringe cinereous. Hind wings whitish, with a brown discal point; marginal line composed of points in front; fringe cinereous, white hindward. Length of the body 3½ lines; of the wings 10 lines.

a. Bogotà. From Mr. Stevens' collection.

33. Scopula Itylusalis.

Mas. *Albido-testacea, gracilis; palpi cervini, porrecti, subtus albi, articulo 3o minuto conico; antennæ subpubescentes; abdomen alas posticas sat superans; alæ apud marginem exteriorem cervinæ, linea exteriore fuscescente denticulata obliqua subrecta, punctis marginalibus nigris; anticæ acutæ, orbiculari et reniformi fuscescentibus, hac informi, illa e annulo oblongo; posticæ albidæ.*

Male. Whitish testaceous, slender. Palpi fawn-colour, porrect, moderately broad, not longer than the breadth of the head, white beneath; third joint minute, conical. Maxillary palpi short, distinct. Antennæ minutely pubescent. Abdomen extending somewhat beyond the hind wings. Wings moderately broad, fawn-colour along the exterior border; exterior line brownish, denticulated, oblique, nearly straight; marginal points black. Fore wings acute; orbicular and reniform marks brownish, the former represented by an oblong ringlet, the latter irregular. Hind wings whitish. Length of the body 5 lines; of the wings 11 lines.

a. New Grenada. From the Entomological Society's collection.

Africa.

34. Scopula Martialis.

Fœm. S. ferrugali *simillima, paullo minor, multo pallidior, linea exteriore maculisque discalibus cinereis indistinctis, disco subtus vix nigricante; posticæ fere albæ, margine flavescente.*

Scopula Martialis, *Guen. Delt. et Pyr.* 398, 517.

Abyssinia.

Var.? Fawn-colour, white beneath. Head white about the eyes. Abdomen brownish cinereous; hind borders of the segments

white. Middle tibiæ slightly dilated. Fore wings somewhat paler than those of *S. ferrugalis;* lines distinct; marginal points black, very distinct; two black points towards the tip of the costa; orbicular and reniform represented by two large ringlets. Hind wings whitish, otherwise like those of *S. ferrugalis.*

a. Interior of South Africa. Presented by Sir A. Smith.
b. South Africa. From Mr. Argent's collection.

35. Scopula illutalis.

Mas et fœm. S. numerali *valde affinis, paullo major; alæ anticæ plus concolores, minus conspersæ, apice magis rotundatæ, linea exteriore arcuata e punctis, maculis discalibus vix conspicuis, macula posteriore e atomis confluentibus; posticæ pallidæ maculis discalibus lineisque nullis.*

Scopula illutalis, *Guen. Delt. et Pyr.* 400, 520.
Scopula dilutalis? *Guen. Explor. Scient. de l'Alger. Anim. Artic.* iii. 401, 156, pl. 4, f. 6.

Algeria.

36. Scopula Pædiusalis.

Mas. *Pallidissime cervina, gracilis; oculi albo cincti; palpi porrecti, graciles, breviusculi; antennæ graciles, vix pubescentes; abdomen albido-cinereum, alas posticas perpaullo superans, segmentis albo marginatis; alæ sat angustæ, linea marginali fimbriaque albis; anticæ acutæ, apud discum pallide luteæ, lineis interiore et exteriore denticulatis, hac valde flexa, orbiculari et reniformi subobsoletis; posticæ albidæ, margine exteriore subcervino.*

Male. Very pale fawn-colour, slender, white beneath. Head white about the eyes. Palpi porrect, not long nor broad; third joint conical, concealed by the hairs. Antennæ slender, hardly pubescent. Abdomen whitish cinereous, extending very little beyond the hind wings; hind borders of the segments white. Wings rather narrow; marginal line and fringe white, the latter interlined with pale cinereous. Fore wings acute; mostly pale luteous in the disk; interior and exterior lines denticulated, of the ground-colour, the latter much bent; orbicular and reniform marks almost obsolete; exterior border very oblique. Hind wings whitish, with a fawn-

coloured tinge along the exterior border. Length of the body 4 lines; of the wings 10 lines.

a. Congo. Presented by Sir J. Richardson.

37. SOOPULA? CLEOALIS.

Mas. *Ferruginea, vix gracilis, subtus cinerea; fasciculus frontalis acuminatus; palpi porrecti, longiusculi, obtusi, non lati, articulo 3o minimo; palpi maxillares distincti; antennæ validæ, vix pubescentes; abdomen alas posticas non superans; pedes robusti; alæ anticæ nigro subconspersæ, costa obscuriore pallido punctata, linea exteriore pallida intus fusco marginata antice subarcuata apud costam dilatata, linea interiore indistincta; posticæ albido-cinereæ.*

Male. Ferruginous, hardly slender, cinereous beneath. Head with the frontal tuft rather prominent. Palpi porrect, obtuse, extending beyond the head; second joint rather long, not broad; third extremely minute. Maxillary palpi distinct. Antennæ stout, hardly pubescent. Abdomen not extending beyond the hind wings. Legs stout. Wings moderately broad. Fore wings acute, minutely speckled with black, darkest along the costa, where there are several pale points; exterior line pale, brown-bordered on the inner side, slightly curved in front, dilated on the costa; interior line and reniform mark less distinct; marginal points blackish; fringe cinereous, interlined; exterior border slightly convex. Hind wings whitish cinereous; marginal points and fringe as in the fore wings. Length of the body 5 lines; of the wings 13 lines.

This species has some resemblance to the *Pyralidæ*.

a. South Africa. Presented by Sir A. Smith.

38. SOOPULA? CARITALIS.

Lutea, gracilis, subtus alba; palpi breves, lati, acuti, subascendentes, nigro binotati; thorax ochraceo bivittatus; tibiæ anticæ nigro cinctæ; tarsi antici albi, nigro unifasciati; alæ latiusculæ; anticæ acutæ, fasciis quinque ochraceis apud costam nigris, linea submarginali undulata saturate rufa fasciisque submarginali subchalybea extus rufo marginata connexis, margine exteriore rufo, linea marginali nigra, fimbria alba nigro binotata; posticæ lineis exteriore et submarginali, fimbria nigricante-cinerea.

Luteous, slender, white beneath. Palpi broad, short, acute, slightly ascending, with a black dot near the base and with black tips. Thorax with two orange stripes. Fore tibiæ black at the base and at the tips, and with a black point above; fore tarsi white, with a black band. Wings rather broad. Fore wings acute, with five orange lines, each terminated by a black costal point; first, second and third lines basal; interior line nearly straight; exterior line forming two right angles; submarginal line undulating, deep red, contiguous to a more exterior denticulated somewhat chalybeous band, which is bordered by red on the outer side; exterior border red, with a black line; fringe white, blackish cinereous at the tip and for a space in the middle of the border. Hind wings with the exterior line, submarginal line and exterior border like those of the fore wings; fringe blackish cinereous. Length of the body 5 lines; of the wings 14 lines.

a. Sierra Leone. From Mr. Foxcroft's collection.

Asia.

39. Scopula? Plangonalis.

Rufa; caput subtus et pectus antice alba; palpi porrecti, longiusculi, sat graciles, articulo 3o lanceolato; thoracis latera antica purpurascente-cinerea; alæ latiusculæ, spatio apud marginem interiorem fasciaque brevi apud marginem interiorem rufis, lineis interiore et exteriore nigricantibus, reniformi e macula flava cordiformi rufo marginata, macula exteriore oblonga alba hyalina; posticæ spatio apud marginem interiorem albido, margine exteriore fimbriaque purpurascente-cinereis.

Red. Head beneath and fore part of the pectus white. Palpi porrect, rather long and slender, white beneath towards the base; third joint lanceolate, shorter than the second. Thorax purplish cinereous on each side in front. Tarsi and fore coxæ whitish. Wings rather broad. Fore wings purplish cinereous, except the space about the interior border and a short marginal band, which is interrupted by the veins; interior and exterior lines blackish; the former curved; the latter oblique, interrupted by an oblong white hyaline spot; reniform mark represented by a yellow heart-shaped red-bordered spot. Hind wings with the space along the interior border whitish; exterior border and fringe purplish cine-

reous; exterior line blackish. Length of the body 6 lines; of the wings 14 lines.

a. North Hindostan. Presented by Major Parry.

40. Scopula? Martinalis.

Fœm. *Cervina, sat gracilis, subtus atba; oculi magni; palpi porrecti, articulo 3o longi-conico; palpi maxillares distincti; abdomen alas posticas paullo superans, segmentis albo marginatis; alæ elongatæ; anticæ glaucescentes, apice rotundatæ, linea media fusca recta maculam costalem testaceam strigamque posticam albidam includente, linea submarginali nigricante arcuata diffusa, punctis marginalibus nigris, margine exteriore convexo, fimbria alba; posticæ albidæ, margine exteriore fuscescente-cinereo.*

Female. Fawn-colour, rather slender, white beneath. Eyes large, prominent. Palpi porrect, moderately broad, as long as the breadth of the head, white beneath towards the base; third joint elongate-conical, about half the length of the second. Maxillary palpi distinct. Abdomen extending a little beyond the hind wings; hind borders of the segments white. Wings elongate. Fore wings with a glaucous tinge, rounded at the tips; middle line brown, straight, upright, containing a testaceous costal spot and a whitish hindward streak; submarginal line blackish, diffuse, curved inward; marginal points black; exterior border convex; fringe white. Hind wings whitish, brownish cinereous towards the exterior border. Length of the body 4½ lines; of the wings 12 lines.

a. Hindostan. From Archdeacon Clerk's collection.

41. Scopula? orientalis.

Alæ anticæ albido fuscoque umbrosæ, externe cæsio notatæ, ciliis albido nigroque variis, striga basali obliqua et striga externa bis sinuata nigris, annuloque minuto nigro discali; posticæ nigricante-subcinereæ, striga externa nigricante, ciliis albidis, inter venas 3am 4amque nigris.

Scopula orientalis, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1851, xxiv. No. 2, 642, 30.

Eastern Siberia.

Australia.

42. Scopula Dicealis.

Fœm. *Testacea, gracilis; palpi cervini, porrecti, sat graciles, subtus albi, articulo 3o longi-conico; palpi maxillares distincti; alæ latiusculæ, lineis interiore et exteriore nigricantibus denticulatis subundulatis, punctis marginalibus nigris; anticæ acutæ, subfalcatæ, linea exteriore flexa, orbiculari et reniformi nigricante marginatis, illa oblonga; posticæ pallidiores, apud marginem exteriorem obscuriores, gutta discali nigricante.*

Female. Testaceous, slender, white beneath. Palpi fawn-colour, porrect, rather slender, a little longer than the breadth of the head, white beneath; third joint elongate-conical, about one-third of the length of the second. Maxillary palpi distinct. Antennæ slender. Wings rather broad, not long; interior and exterior lines blackish, denticulated, slightly undulating; marginal points black. Fore wings acute, almost falcate; exterior line bent; orbicular and reniform marks void, with blackish borders, the former oblong, the latter of the normal shape. Hind wings paler than the fore wings, except towards the exterior border, with a blackish discal dot. Length of the body 4? lines; of the wings 10 lines.

a. Sydney. From Mr. Lambert's collection.

43. Scopula Massalis.

Mas. *Rufescente-cervina, gracilis, subtus alba; palpi porrecti, articulo 3o parvo conico acuto; antennæ sat robustæ; abdomen alas posticas non superans; alæ sat angustæ, fimbria albida interlineata; anticæ valde acutæ, linea exteriore nigricante perobliqua intus valde diffusa extus albido marginata, lunulis marginalibus nigris, striga discali interrupta albida; posticæ cinereæ.*

Male. Reddish fawn-colour, slender, white beneath. Front prominent. Palpi porrect, not long, moderately broad; third joint small, conical, acute. Antennæ rather stout. Abdomen not extending beyond the hind wings. Wings rather narrow; fringe white, interlined with cinereous. Fore wings very acute, with a very oblique blackish exterior line, which is very diffuse on the inner side and is bordered with whitish on the outer side; marginal lunules black; a whitish interrupted streak extending from the base to beyond

the middle of the disk. Hind wings cinereous. Length of the body 3—3½ lines; of the wings 7—8 lines.

a, *b*. Moreton Bay. From Mr. Diggles' collection.
c. Australia. From Mr. Milne's collection.

44. Scopula Segestusalis.

Mas. *Testacea, gracilis; palpi cervini, porrecti, non lati, subtus albi, articulo 3o longi-conico; palpi maxillares distincti; antennæ subpubescentes; abdomen alas posticas vix superans; alæ sat angustæ, punctis marginalibus nigris; anticæ acutæ, linea exteriore denticulata subinterrupta tenuissima, orbiculari punctiformi et reniformi lunulata nigricantibus; posticæ gutta discali nigricante.*

Male. Testaceous, slender, white beneath. Palpi fawn-colour, porrect, not broad, as long as the breadth of the head, white beneath; third joint elongate-conical, about half the length of the second. Maxillary palpi distinct. Antennæ very minutely pubescent. Abdomen hardly extending beyond the hind wings. Wings rather narrow; marginal points blackish. Fore wings acute; exterior line blackish, denticulated, very slight and somewhat interrupted; orbicular and reniform marks blackish, the former represented by a minute dot, the latter lunulate. Hind wings with a blackish discal dot. Length of the body 4 lines; of the wings 9 lines.

a, *b*. Australia. From Mr. Milne's collection.

45. Scopula Cleodoralis.

Fœm. *Fuscescente-cinerea, gracilis, subtus alba; palpi fusci, subincumbentes, articulo 3o lanceolato; palpi maxillares pilosi, conspicui; abdomen alas posticas non superans, segmentis albo marginatis; alæ sat angustæ; anticæ apice subrotundatæ, apud venas nigro alboque conspersæ, linea exteriore alba undulata, punctis submarginalibus nigris, reniformi e strigula nigra perobliqua; posticæ albido-cinereæ.*

Female. Brownish cinereous, slender, white beneath. Palpi brown, slightly decumbent, longer than the breadth of the head; third joint lanceolate. Maxillary palpi pilose, very conspicuous. Abdomen not extending beyond the hind wings; hind borders of the segments white. Wings rather narrow; fringe long. Fore wings somewhat rounded at the tips, speckled with black and with white

along the veins; exterior line white, undulating; submarginal points black; reniform mark represented by a minute very oblique black streak. Hind wings whitish cinereous. Length of the body 3 lines; of the wings 8 lines.

a. Sydney. From Mr. Diggles' collection.

46. Scopula? Itonusalis.

Mas. *Albida, gracilis; frons prominens; palpi porrecti, graciles, articulo 3o lanceolato; antennæ subcompressæ; thoracis latera antica pallide ochracea; abdomen alas posticas superans; alæ sat angustæ; anticæ pallide ochraceæ, acutissimæ, lineis obliquis angulosis albidis, margine exteriore perobliquo; posticæ albidæ.*

Male. Whitish, slender. Front prominent. Palpi porrect, slender, longer than the breadth of the head; third joint lanceolate. Maxillary palpi resting on the labial palpi. Antennæ slightly compressed. Thorax pale ochraceous on each side in front. Abdomen extending somewhat beyond the hind wings. Wings rather narrow. Fore wings pale ochraceous, very acute, with zigzag oblique whitish lines; exterior border very oblique. Hind wings whitish. Length of the body 4½ lines; of the wings 10 lines.

a. Adelaide. Presented by the Entomological Club.

47. Scopula? cordalis.

Mas et fœm. *Ochracea, gracilis; abdomen alas posticas longe superans; alæ elongatæ, sordide albidæ, punctis paucis marginalibus fuscis, linea exteriore fusca incompleta; anticæ subfalcatæ, nonnunquam pallide ochraceæ, basi maculisque duabus discalibus ochraceis, plaga apicali ochracea fusco marginata, margine exteriore subundulato; posticæ apud marginem exteriorem pallide ochraceæ, macula discali fusca.* Mas.—*Palpi breviores, articulo 3o lanceolato; antennæ robustæ, pubescentes, vix serratæ.* Fœm.—*Palpi longiores.*

Margaritia? cordalis, *Doubleday. Dieffenbach's New Zealand*, i. 288, 128.

Male and female. Dull ochraceous, slender, whitish beneath. Abdomen extending far beyond the hind wings. Wings elongate, dingy whitish, with a few brown marginal points; exterior line

brown, incomplete. Fore wings acute, subfalcate, ochraceous at the base, and with an ochraceous apical patch, which is slightly bordered with brown on its inner side; middle part with two large ochraceous spots, which represent the orbicular and reniform marks, or almost wholly pale ochraceous; exterior border slightly undulating. Hind wings broadly, but often incompletely pale ochraceous along the exterior border; this hue is brown bordered on the inner side; a brown discal spot, exterior border slightly flexuous. *Male*—Palpi not so long as the breadth of the head; third joint lanceolate, about half the length of the second. Antennæ stout, pubescent, hardly serrated. *Female.*—Palpi longer than the breadth of the head. Antennæ simple. Length of the body 5—6 lines; of the wings 12—14 lines.

a—d. New Zealand. Presented by Dr. Sinclair.
e. Sydney. From Mr. Lambert's collection.
f.——? From Mr. Milne's collection.

New Zealand.

48. Scopula? flavidalis.

Mas et fœm. *Ochracea aut cervina, gracilis; palpi rostriformes, porrecti aut subincumbentes, capitis latitudine paullo longiores, articulo 3o lanceolato; palpi maxillares valde distincti; abdomen cinereum, segmentis albo marginatis; alæ lineis interiore et exteriore cinereis denticulatis subundulatis, punctis marginalibus nigris; anticæ acutæ, orbiculari et reniformi magnis cinereis, hac extus excavata, illa oblonga; posticæ spatio lato marginali cinereo, gutta discali nigricante.* Mas.—*Antennæ robustæ, compressæ, subpubescentes.*

Margaritia flavidalis, *Doubleday. Dieffenbach's New Zealand*, i. 287, 125.

Male and female. Ochraceous or fawn-colour, slender, pale beneath. Palpi rostriform, porrect or slightly incumbent, a little longer than the breadth of the head, white beneath; third joint lanceolate, shorter than the second. Maxillary palpi very distinct. Abdomen cinereous; hind borders of the segments white. Wings moderately broad; interior and exterior lines cinereous, denticulated, slightly undulating; marginal points black. Fore wings acute; orbicular and reniform marks large, cinereous, the former oblong, the latter excavated on its outer side. Hind wings with a broad

cinereous space along the exterior border, and with a blackish dot on the interior line. *Male.*—Antennæ stout, compressed, minutely pubescent. Abdomen extending very little beyond the hind wings. *Female.*—Antennæ slender. Abdomen not extending beyond the hind wings. Length of the body 3½—4 lines; of the wings 9 lines.

a—d. New Zealand. Presented by Dr. Sinclair.

49. Scopula quadralis.

Mas et fœm. *Cinerea, gracilis,* S. flavidali *simillima; alæ anticæ nonnunquam ferrugineo tinctæ aut rufescente-ferrugineæ, macula inter lituras discales subquadrata pallide lutea; posticæ gutta discali nigricante, lineis nullis.*

Margaritia quadralis, *Doubleday, Dieffenbachs, New Zealand,* i. 288, 126.

Male and female. Cinereous, slender. Palpi and wings like those of *S. flavidalis.* Fore wings sometimes with a ferruginous tinge or reddish ferruginous; a pale luteous subquadrate spot between the discal marks. Hind wings wholly cinereous, except a blackish discal dot.

This seems to be a mere variety of *S. flavidalis.*

a—c. New Zealand. Presented by Dr. Sinclair.
d. New Zealand. Presented by Col. Bolton.

50. Scopula? Dipsasalis.

Mas. *Pallide ochracea, gracilis; caput subtus album; palpi porrecti, graciles, longi, articulo 3o lanceolato; palpi maxillares distincti; antennæ vix pubescentes; alæ fusco subconspersæ, lineis interiore et exteriore fuscis undulatis, punctis marginalibus nigris; anticæ acutæ, linea exteriore denticulata valde flexa, reniformi indistincta.*

Male. Pale ochraceous, slender. Head white beneath. Palpi porrect, slender, longer than the breadth of the head, white beneath towards the base; third joint lanceolate, shorter than the second. Maxillary palpi distinct. Antennæ very minutely pubescent. Abdomen hardly extending beyond the hind wings. Wings moderately broad, thinly speckled with brown; interior and exterior lines brown, undulating; marginal points black; fringe indistinctly interlined. Fore wings acute; exterior line denticulated, much

bent; reniform mark indistinct. Hind wings with the speckles numerous and confluent towards the tips. Length of the body 4 lines; of the wings 10 lines.

This species has some resemblance to the genus *Botys*.

a. New Zealand. Presented by Dr. Sinclair.

51. Scopula? Hybreasalis.

Mas. *Rufa, gracilis, subtus alba; palpi porrecti, longi, rostriformes, articulo 3o lanceolato; antennæ sat robustæ; abdomen subrufescente-albidum; alæ anticæ luteæ, subfalcatæ, rufo conspersæ, basi costa margineque exteriore postico subpurpurascentes, lituris tribus costalibus elongatis albis, lineis interiore et exteriore purpurascentibus subundulatis, margine exteriore apud medium subdilatato; posticæ flavescente-albæ, margine exteriore flexuoso subfuscescente.*

Male. Red, slender, white beneath. Palpi porrect, rostriform, much longer than the breadth of the head; third joint lanceolate, rather more than half the length of the second. Maxillary palpi short. Antennæ smooth, rather stout. Abdomen whitish, with a slight reddish tinge, extending a little beyond the hind wings. Fore wings luteous, subfalcate, speckled with red, with a purplish tinge at the base and along the costa and about the hind part of the exterior border; three elongated white marks along the costa; interior and exterior lines purplish, slightly undulating; exterior border somewhat dilated in the middle. Hind wings yellowish white; exterior border flexuous, slightly brownish. Length of the body 5 lines; of the wings 10 lines.

a. New Zealand. From Major Parry's collection.

52. Scopula? Paronalis.

Mas. *Purpurascente-cinerea, subtus alba; palpi porrecti, longi, valde acuti, non lati; palpi maxillares distincti, ascendentes; antennæ robustæ, compressæ, vix pubescentes; abdomen albido-cinereum, apice rufescens, alas posticas superans; alæ anticæ lineis interiore et exteriore fuscis, hac obliqua lunulata, intus flavo alboque marginata, illa undulata maculaque rufa interiore contiguis, macula costali trigona albida postice alba hyalina, guttis duabus exterioribus costalibus albidis, margine exteriore apud medium dilatato; posticæ albido-cinereæ, linea exteriore indistincta margineque fuscescentibus.*

Male. Purplish cinereous, slender, white beneath, like *S. Plangonalis* in structure. Palpi porrect, long, not broad, very acute, white beneath towards the base; third joint concealed by the hairs. Maxillary palpi distinct, ascending. Antennæ stout, compressed, hardly pubescent. Abdomen whitish cinereous, extending somewhat beyond the hind wings, reddish at the tip. Fore tibiæ red, short; middle tibiæ somewhat dilated. Wings moderately broad. Fore wings rounded at the tips; interior and exterior lines brown; interior line undulating, with a red spot on its interior side in front; exterior line oblique, lunulate, its inner side bordered with yellow in the middle and with hyaline white in front; a triangular whitish costal spot, which is white and hyaline hindward, and two exterior costal whitish dots; exterior border dilated in the middle. Hind wings whitish cinereous, brownish along the exterior border and with an indistinct brownish exterior line. Length of the body .6 lines; of the wings 12 lines.

a. New Zealand. Presented by the Rev. W. Colenso.
b. New Zealand. From Major Parry's collection.

53. Scopula Crinisalis.

Mas et fœm. *Lutea, gracilis, subtus alba; palpi vervini, porrecti, acuti, articulo 3o parvo; abdomen cinereum; alæ anticæ subacutæ, lineis interiore et exteriore denticulatis, hac flexa, orbiculari punctiformi, reniformi lunulata; posticæ albidæ, margine exteriore testaceo.* Mas.—*Abdomen alas posticas sat superans.*

Male and female. Luteous, slender, white beneath. Palpi fawn-colour, porrect, acute, not long nor broad, white beneath; third joint minute. Maxillary palpi slender, distinct. Abdomen cinereous. Fore wings slightly acute; interior and exterior lines denticulated, a little darker than the ground-colour, the latter bent; punctiform orbicular mark and lunulate reniform mark like the lines in hue. Hind wings whitish, testaceous along the exterior border. *Male.*—Antennæ smooth. Abdomen extending rather beyond the hind wings. Length of the body 3½—4 lines; of the wings 8 lines.

a. ——— ? From Mr. Milne's collection.
b, c. ——— ?

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